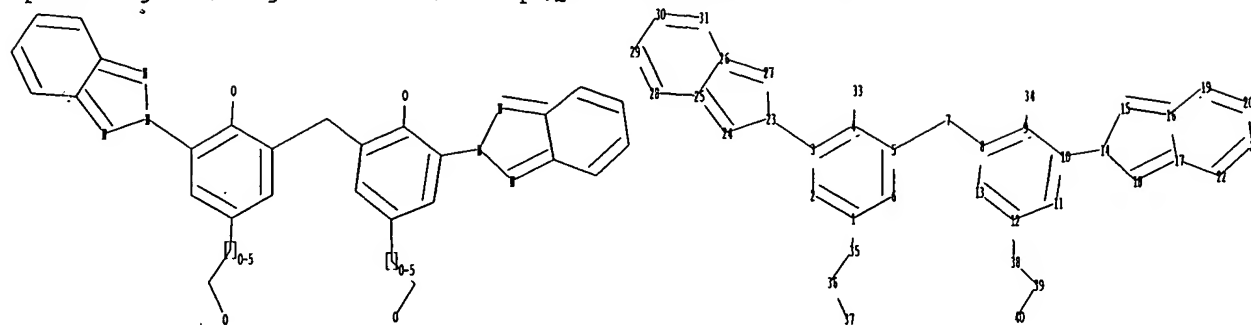


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chain nodes :

7 33 34 35 36 37 38 39 40

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31

chain bonds :

1-35 3-23 4-33 5-7 7-8 9-34 10-14 12-38 35-36 36-37 38-39 39-40

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 14-15 14-18
15-16 16-17 16-19 17-18 17-22 19-20 20-21 21-22 23-24 23-27 24-25 25-26
25-28 26-27 26-31 28-29 29-30 30-31

exact/norm bonds :

3-23 4-33 9-34 10-14 14-15 14-18 15-16 17-18 23-24 23-27 24-25 26-27
36-37 39-40

exact bonds :

1-35 5-7 7-8 12-38 16-17 16-19 17-22 19-20 20-21 21-22 25-26 25-28
26-31 28-29 29-30 30-31 35-36 38-39

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13

isolated ring systems :

containing 1 : 8 : 14 : 23 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom 30:Atom 31:Atom 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS
38:CLASS 39:CLASS 40:CLASS

L8 STRUCTURE UPLOADED

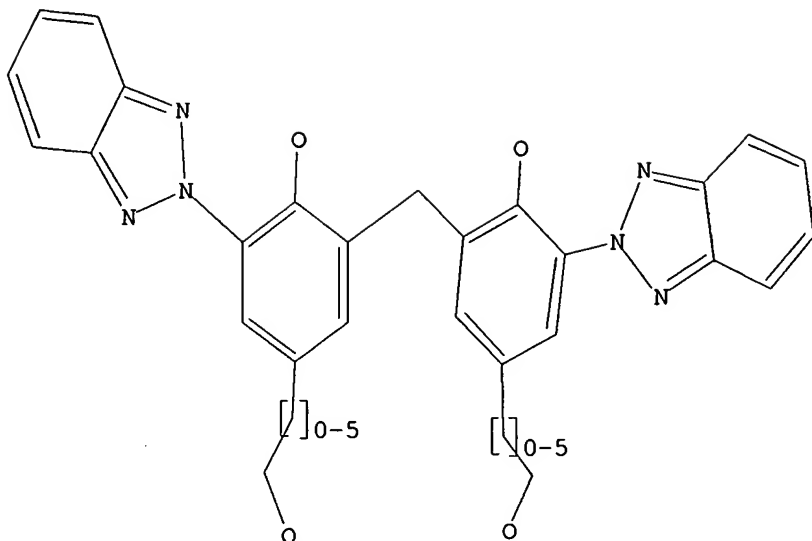
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L8 HAS NO ANSWERS

L8 STR

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Structure attributes must be viewed using STN Express query preparation.

=> s 18 full

FULL SEARCH INITIATED 13:33:02 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 137 TO ITERATE

100.0% PROCESSED 137 ITERATIONS

99 ANSWERS

SEARCH TIME: 00.00.01

L9 99 SEA SSS FUL L8

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

517.29

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-29.20

FILE 'CAPLUS' ENTERED AT 13:33:07 ON 16 MAR 2007

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FILE LAST UPDATED: 15 Mar 2007 (20070315/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
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<http://www.cas.org/infopolicy.html>

=> s 19

L10 73 L9

=> d ibib abs hitstr 60-73

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=> d his

(FILE 'HOME' ENTERED AT 13:16:26 ON 16 MAR 2007)

FILE 'REGISTRY' ENTERED AT 13:18:00 ON 16 MAR 2007
L1 STRUCTURE UPLOADED

FILE 'CASREACT' ENTERED AT 13:18:21 ON 16 MAR 2007
L2 108 S L1 FULL
L3 STRUCTURE UPLOADED
L4 91 S L3 FULL
L5 2 S L4 AND GRUBB
L6 5 S L4 AND METATHESIS
L7 12 S L4 AND CATALYST

FILE 'REGISTRY' ENTERED AT 13:32:33 ON 16 MAR 2007
L8 STRUCTURE UPLOADED
L9 99 S L8 FULL

FILE 'CAPLUS' ENTERED AT 13:33:07 ON 16 MAR 2007
L10 73 S L9

=> s l10 and (emulsion or resin)
202996 EMULSION
124104 EMULSIONS
245891 EMULSION
(EMULSION OR EMULSIONS)
625120 RESIN
410306 RESINS
765246 RESIN
(RESIN OR RESINS)
L11 37 L10 AND (EMULSION OR RESIN)

=> d ibib abs hitstr tot

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L11 ANSWER 1 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:952208 CAPLUS
 DOCUMENT NUMBER: 145:345428
 TITLE: Optical film and optical compensating film for polarizing plate and liquid crystal display
 INVENTOR(S): Murakami, Takashi; Shimizu, Kuni
 PATENT ASSIGNEE(S): Konica Minolta Opto. Inc., Japan
 SOURCE: U.S. Pat. Appl. Publ., 75pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

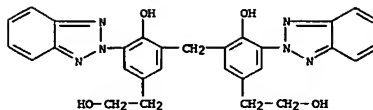
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006202366	A1	20060914	US 2006-367674	20060306
KR 2006097617	A	20060914	KR 2006-21290	20060307
CN 1834705	A	20060920	CN 2006-10055064	20060307
PRIORITY APPLN. INFO.:			JP 2005-66913	A 20050310
			JP 2006-26237	A 20060202

AB An object is to provide an optical film in which retardation variation is less even after a long period of duration of use, to provide an optical compensating film in which transparency and flatness are not deteriorated in a stretching process by using the foregoing film as a support, and to provide a polarizing plate and a liquid crystal display exhibiting reduced visibility variation caused by heat generation of an optical LED back light, and excellent color reproducibility. Disclosed is a manufacturing method of an optical film formed by melt-casting a composition containing a cellulose resin and a plasticizer, wherein the cellulose resin has a residual sulfuric acid content of 0.1-50 ppm, and the composition contains a polymer having a weight average mol. weight of 500-30000 prepared via polymerization of ethylenic unsatd. monomers, or an acrylic polymer having a weight average mol. weight of 500-30000.

IT 196516-61-7, RUVA-100
 RL: TEM (Technical or engineered material use); USES (Uses)
 (UV absorbent; optical film for polarizing plate and liquid crystal display containing)

RN 196516-61-7 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-(9CI)] (CA INDEX NAME)

L11 ANSWER 1 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L11 ANSWER 2 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

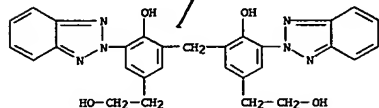
ACCESSION NUMBER: 2006:486361 CAPLUS
 DOCUMENT NUMBER: 144:498303
 TITLE: Reversible thermal printing material with magnetic recording layer and insulating layer
 INVENTOR(S): Azuma, Yoichiro
 PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JPOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006130876	A	20060525	JP 2004-325137	20041109
PRIORITY APPLN. INFO.:			JP 2004-325137	20041109

AB The material comprises a support successively coated with (A) a magnetic recording layer, (B) an insulating layer containing nonmagnetic metal (oxide), (C) a reversible thermal recording layer containing leuco dye and a reversible color developer, (D) UV absorbing layer, and (E) a protective layer containing resin curable by electron beam or UV radiation, in which thickness of C is 70-130% of that of B. The material gives high contrast reversible images with abrasion resistance.

IT 196516-61-7
 RL: TEM (Technical or engineered material use); USES (Uses)
 (UV absorbent; reversible thermal printing material with magnetic recording layer, insulating layer, and protective layer)

RN 196516-61-7 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-(9CI)] (CA INDEX NAME)



L11 ANSWER 3 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:14464 CAPLUS
 DOCUMENT NUMBER: 142:95929
 TITLE: Aqueous emulsions of ultraviolet-absorbing resins and emulsion resin compositions
 INVENTOR(S): Inokami, Kiyotaka
 PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005000933	A1	20050106	WO 2003-JP8014	20030625
W: CN, KR, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
EP 1637552	A1	20060322	EP 2003-741121	20030625
R: BE, DE, GB, HU				
CN 1788029	A	20060614	CN 2003-826679	20030625
US 2006155015	A1	20060713	US 2005-562037	20051222
PRIORITY APPLN. INFO.:			WO 2003-JP8014	W 20030625

AB Aqueous emulsions contain resins prepared from polyols having a UV-absorbing group, e.g., 1,1-bis[3-(2H-benzotriazol-2-yl)-4-hydroxybenzeneethanol]methane, optional polyols, alkyl- or arylalkanolamines, and organic polyisocyanates. Thus, an aqueous emulsion contained 1,1-bis[3-(2H-benzotriazol-2-yl)-4-hydroxybenzeneethanol]methane-isophorone diisocyanate-N-methylidiethanolamine copolymer acetic acid salt.

IT 622011-24-99
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (aqueous emulsions of UV-absorbing resins)

RN 622011-24-9 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and 2,2'-(methylimino)bis[ethanol], acetate (salt) (9CI)] (CA INDEX NAME)

CM 1
 CRN 64-19-7
 CMF C2 H4 O2



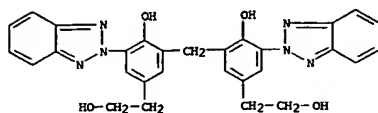
CM 2
 CRN 622011-23-8
 CMF (C29 H26 N6 O4 . C12 H18 N2 O2 . C5 H13 N O2) #
 CCI FMS

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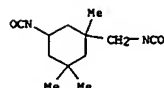
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L11 ANSWER 3 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

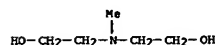
CRN 196516-61-7
CMF C29 H26 N6 O4



CM 4
CRN 4098-71-9
CMF C12 H18 N2 O2



CM 5
CRN 105-59-9
CMF C5 H13 N O2



REFERENCE COUNT: 8
THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

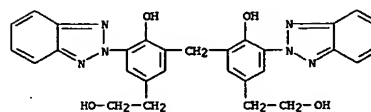
L11 ANSWER 4 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:474722 CAPLUS
DOCUMENT NUMBER: 141:31135
TITLE: Recyclable plastic labels forming time-stable high-contrast thermochromic images
INVENTOR(S): Azuma, Yoichi
PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKOXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004163604	A	20040610	JP 2002-328437	20021112
PRIORITY APPLN. INFO.:			JP 2002-328437	20021112

AB The labels, capable of recycling together with their adherends (e.g., bottles), have thermochromic imaging layers containing leuco dyes and reversible developers, on one side of polystyrene-containing supports preferably via barrier layers. The labels may have photothermal conversion layers and overcoat layers containing UV absorbents.

IT 196516-61-7
RL: TEM (Technical or engineered material use); USES (Uses) (overcoat layers; recyclable plastic labels repeatedly forming thermochromic images with time-stable d.)
RN 196516-61-7 CAPLUS
CN Benzenethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-9CI] (CA INDEX NAME)

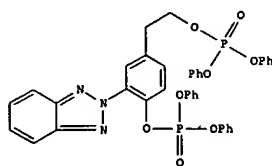
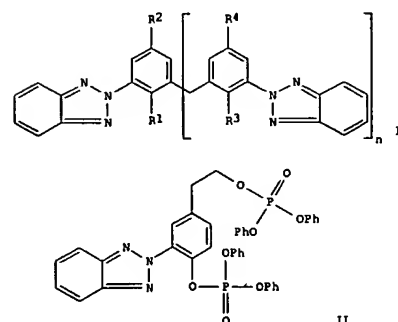


L11 ANSWER 5 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:271472 CAPLUS
DOCUMENT NUMBER: 140:288189
TITLE: Benzotriazolyl group-containing phosphates as low-volatile

INVENTOR(S): Onchi, Yoko; Takahashi, Ikuo
PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKOXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004099448	A	20040402	JP 2002-259359	20020904
PRIORITY APPLN. INFO.:			JP 2002-259359	20020904
OTHER SOURCE(S):			MARPAT 140:288189	



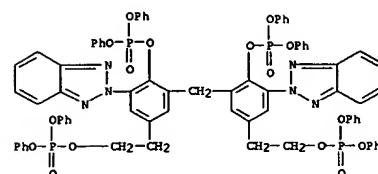
AB The phosphates have benzotriazolyl groups I [R1, R3 = H, C1-8 alkyl, C6-12 aryl, OH, bis(C6-12 aryl)phosphoryl; R2, R4 = H, C1-8 alkyl, C6-12 aryl, etc.; ≥1 of R1-R4 = bis(C6-12 aryl)phosphoryl; n = 0, 1]. Thus, 2-(2H-benzotriazol-2-yl)-4-(2-hydroxyethyl)phenol was treated with (PhO)2P(O)Cl to give 87% II. A test piece containing 100 parts Duranex

400PP [poly(butylene terephthalate)] and 15 parts II showed maximum heat generation rate 810 kW/m2 in combustion.
IT 674785-22-9P 674785-23-OP

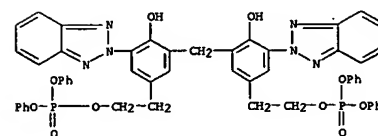
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L11 ANSWER 5 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(manuf. of benzotriazolyl group-contg. phosphates as low-volatile fireproofing agents and UV shields for resins)
RN 674785-22-9 CAPLUS
CN Phosphoric acid, methylenebis[5-(2H-benzotriazol-2-yl)-4-[2-(di(phenoxymethyl)phosphoryl)oxy]ethyl]-2,1-phenylene] tetraphenyl ester (9CI) (CA INDEX NAME)



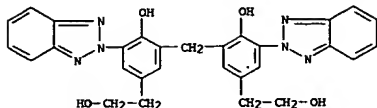
RN 674785-23-0 CAPLUS
CN Phosphoric acid, methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] tetraphenyl ester (9CI) (CA INDEX NAME)



IT 196516-61-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(manufacture of benzotriazolyl group-containing phosphates as low-volatile fireproofing agents and UV shields for resins)
RN 196516-61-7 CAPLUS
CN Benzenethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-9CI] (CA INDEX NAME)

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L11 ANSWER 5 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L11 ANSWER 6 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:943458 CAPLUS
 DOCUMENT NUMBER: 139:396535
 TITLE: Ultraviolet ray absorber compositions with good dispersibility, production method thereof, ultraviolet ray absorber composition-containing resins, and molded articles
 INVENTOR(S): Iyoshi, Shuzo; Okumura, Koichi
 PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003342567	A	20031203	JP 2002-149753	20020523

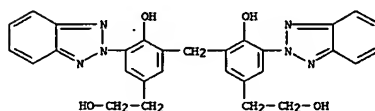
PRIORITY APPLN. INFO.: JP 2002-149753 20020523

AB Title compns. comprise UV ray absorbers dissolved or dispersed in lactone polymers. Thus, 4.32 g diethylene glycol and 395.8 g ε-caprolactone were reacted in the presence of 400 g Tinuvin P and cut to give a copolymer particle with number average mol. weight 9700 containing UV-absorber, 4 parts of which was mixed with 100 parts Panlite L 1250 and injection-molded to give a test piece with good initial tensile strength and UV resistance, elongation retention ratio after 1000 h 95%, and no UV-absorber bleeding.

IT RL: MOA (Modifier or additive use); USES (Uses)
 (UV-stabilizer; UV ray absorber compns. with good dispersibility for resins and molded articles)

RN 196516-61-7 CAPLUS

CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-(9CI)] (CA INDEX NAME)



L11 ANSWER 7 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:889838 CAPLUS
 DOCUMENT NUMBER: 139:365750
 TITLE: Aqueous emulsions of UV-absorbing polymers and their compositions with excellent compatibility and light and chemical resistance
 INVENTOR(S): Ikami, Kiyotaka
 PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003321527	A	20031114	JP 2002-131030	20020502

PRIORITY APPLN. INFO.: JP 2002-131030 20020502

AB The emulsions, useful for coatings, are obtained by reaction of polyols (A) bearing UV-absorbing groups, other polyols (B, optional), alkyl- or aryl-dialkanolamines (C), and organic polyisocyanates (D) in organic solvents (E), diluting them with organic solvents (F) with b.p. <100°, neutralizing them with neutralizers (G), and dispersing them in water. Thus, 1.5 parts an emulsion (nonvolatile content 37%, average particle size 160 nm) prepared from MBEP [1,1-bis[3-(2H-benzotriazol-2-yl)-4-hydroxybenzeneethanol]methane] 136.4, isophorone diisocyanate 80.7, acetic acid 14.1, DMF 240, and Me Et ketone 240 parts was mixed with 100 parts F 8559D (cationic aqueous polyurethane emulsion), applied on a glass plate, and cured at room temperature for 14 days to give a film showing elongation at break 118% initially and 119% after accelerated weathering and good discoloration prevention.

IT 622011-24-9P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TDM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (aqueous emulsions of UV-absorbing polymers bearing benzotriazole groups for coatings with good compatibility and light and chemical resistance)

RN 622011-24-9 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and 2,2'-(methylimino)bis[ethanol], acetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 64-19-7
 CMF C2 H4 O2

CM 2

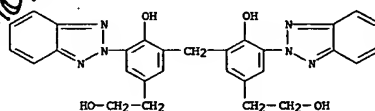
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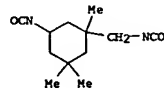
L11 ANSWER 7 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CMF (C29 H26 N6 O4 . C12 H18 N2 O2 . C5 H13 N O2) x
 CCI PMS

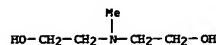
CM 3

CRN 196516-61-7
 CMF C29 H26 N6 O4

CM 4

CRN 4098-71-9
 CMF C12 H18 N2 O2

CM 5

CRN 105-59-9
 CMF C5 H13 N O2

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L11 ANSWER 8 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

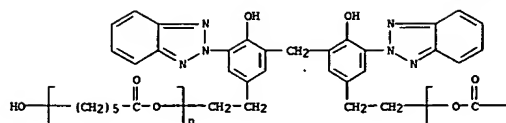
ACCESSION NUMBER: 2003:793703 CAPLUS
 DOCUMENT NUMBER: 139:293521
 TITLE: Ink compositions with good light resistance, storability, and printing stability for ink-jet printers
 INVENTOR(S): Ikami, Kiyotaka
 PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: J000AF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003286419	A	20031010	JP 2002-90059	20020327
JP 2002-90059			JP 2002-90059	20020327

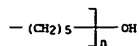
PRIORITY APPLN. INFO.:
 AB Title compns. comprise (A) water, (B) water soluble organic solvents, (C) colorants, and (D) ≥ 1 weather-resistant resins selected from UV-absorbing resins prepared from UV-absorbing functional group-containing polyester polyols, antioxidant resins prepared from antioxidant functional group-containing polyols, and UV-absorbing and antioxidant resins obtained from UV-absorbing functional group-containing polyester polyols and antioxidant functional polyester polyols. Thus, 129.3 g MBEP and 170.3 g ϵ -caprolactone were reacted to give a polyester polyol with acid value 1.8 mg-KOH/g, viscosity 2645 cP at 60°, Mn 1391, Mw 1688, and polydispersity 1.213. 689.77 parts of which was reacted with 262.2 parts isophorone diisocyanate, 48.02 parts dimethylolbutanoic acid was added therein and reacted to give a prepolymer with NCO concentration 0.4 mmol/g, Mn 4400, and Mw 8100. 28.65 parts dimethylaminoethanol was added therein to give 40% solids UV-absorbing resin solution with average particle diameter 95 nm, which was used for an ink set comprising cyan ink, magenta ink, yellow ink, and black ink, showing good light resistance, ink dryability, printing quality, printing stability, and storability.
 IT 214746-68-6P
 RI: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of weather-resistant polymers for ink compns. with good light resistance, storability, and printing stability for ink-jet printers)
 RN 214746-68-6 CAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α,α' -[methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -hydroxy- (9CI) (CA INDEX NAME)]

L11 ANSWER 8 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

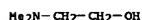
PAGE 1-A



PAGE 1-B



IT 410074-08-7P
 RI: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TDM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (preparation of weather-resistant polymers for ink compns. with good light resistance, storability, and printing stability for ink-jet printers)
 RN 410074-08-7 CAPLUS
 CN Butanoic acid, bis(hydroxymethyl)-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and α,α' -[methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]]], block, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)
 CM 1
 CRN 108-01-0
 CHF C4 H11 N O



CM 2
 CRN 410074-07-6
 CHF (C12 H18 N2 O2 . C6 H12 O4 . (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4)x

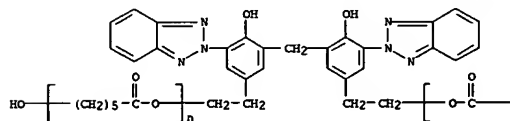
L11 ANSWER 8 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CCI PMS

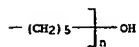
CM 3

CRN 214746-68-6
 CHF (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4
 CCI PMS

PAGE 1-A

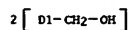
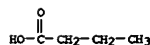


PAGE 1-B



CM 4

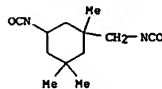
CRN 56743-27-2
 CHF C6 H12 O4
 CCI IDS



CM 5

CRN 4098-71-9
 CHF C12 H18 N2 O2

L11 ANSWER 8 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



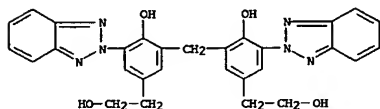
Karen Cheng

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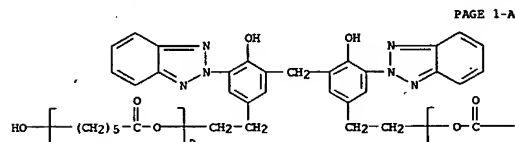
L11 ANSWER 9 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:582974 CAPLUS
 DOCUMENT NUMBER: 139:135004
 TITLE: Ultraviolet radiation-resistant clock dials
 INVENTOR(S): Takabe, Hiroshi; Yamauchi, Katsuyuki
 PATENT ASSIGNEE(S): Kawaguchi Seimitsu Co., Ltd., Japan; Citizen Watch Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003215268	A	20030730	JP 2002-19262	20020128
PRIORITY APPLN. INFO.: JP 2002-19262 20020128				

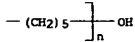
AB Receptor layers for transfer printing in dials contain 100 parts transparent resin binders and 1-20 parts UV absorber 2,2'-methylenebis[4-hydroxyethyl-6-benzotriazolylphenol].
 IT 196516-61-7, 2,2'-methylenebis[4-hydroxyethyl-6-benzotriazolylphenol]
 RL: MOA (Modifier or additive use); USES (Uses)
 (UV absorbers; receptor layers for transfer printing in clock dials containing transparent resin binders and UV absorbers)
 RN 196516-61-7 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-(9CI)] (CA INDEX NAME)



L11 ANSWER 10 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



PAGE 1-B



Karen Cheng

L11 ANSWER 10 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:368952 CAPLUS
 DOCUMENT NUMBER: 138:370372
 TITLE: Ultraviolet-curable resin raw material compositions and their use in surface treatment agents for coatings and inks
 INVENTOR(S): Endo, Toshiro
 PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003137990	A	20030514	JP 2001-342522	20011107
PRIORITY APPLN. INFO.: JP 2001-342522 20011107				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The comps. with good compatibility to other polymer components in coatings and inks, contain benzotriazole-containing polyesters represented by
 I or II (R1 = H, halo, C1-10 alkyl; R2, R4, R5 = H, C1-10 alkyl; R3 = C1-10 alkylene; n, n' = 4-8; m, m' = 1-20). Thus, a mixture containing HMDI-pentaerythritol triacrylate adduct, pentaerythritol triacrylate, THF-A (tetrahydrofurfuryl acrylate), I (R1 = R2 = R4 = R5 = H, R3 = CH2CH2 in 5-position, n = 5, m = 3), and additives was applied on a plate and UV-cured to give a film showing good scratch resistance, adhesion, transparency, and weather resistance.
 IT 214746-68-6
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (UV-curable resin comps. containing benzotriazole-containing polyesters for coatings and inks)
 RN 214746-68-6 CAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α,α'-[methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α-hydroxy- (9CI)] (CA INDEX NAME)

L11 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:352219 CAPLUS
 DOCUMENT NUMBER: 138:355272
 TITLE: Polymer compositions for light-resistant coatings for wood materials
 INVENTOR(S): Ikami, Kiyotaka
 PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003128986	A	20030508	JP 2001-326958	20011024
PRIORITY APPLN. INFO.: JP 2001-326958 20011024				

AB The comps. comprise (A) UV-absorbing polymers prepared from UV-absorbing group-containing polyester polyols and (B) acrylic polymers and/or polyurethanes. Thus, a composition containing 2 parts UV-absorbing polymer prepared from polycaprolactone MBEP [1,1-bis-[3-(2H-benzotriazole-2-yl)-4-hydroxybenzeneethanol]methane] ester, IPDI, and dimethylolbutanoic acid dimethylaminoethanol salt and 100 parts Solucote 25-191 (water-thinned polyurethane emulsion) was applied on a wood plate and dried to give a coated plate with good light resistance under dew formation.
 IT 410074-08-7P 413571-06-9P 413571-09-2P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (UV absorber; polymer comps. for light-resistant coatings for wood materials)
 RN 410074-08-7 CAPLUS
 CN Butanoic acid, bis(hydroxymethyl)-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and α,α'-[methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], block, compd. with 2-(dimethylamino)ethanol (9CI)] (CA INDEX NAME)

CM 1

CRN 108-01-0
CMF C4 H11 N O

Me2N-CH2-CH2-OH

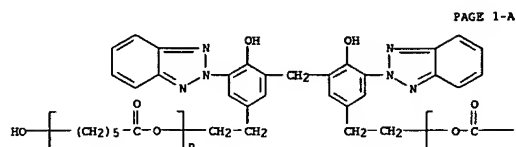
CM 2

CRN 410074-07-6
CMF (C12 H18 N2 O2 . C6 H12 O4 . (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4)X
CCI PMS

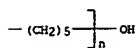
CM 3

CRN 214746-68-6
CMF (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4

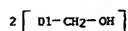
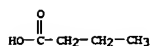
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L11 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CCI PMS

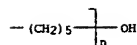
PAGE 1-B



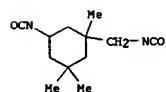
CH 4
CRN 56743-27-2
CMF C6 H12 O4
CCI IDS



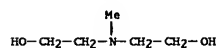
CH 5
CRN 4098-71-9
CMF C12 H18 N2 O2

L11 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
PAGE 1-B

CH 4
CRN 4098-71-9
CMF C12 H18 N2 O2



CH 5
CRN 105-59-9
CMF C5 H13 N O2



RN 413571-09-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and α,α' -(methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl)]bis[α -hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]]], graft, acetate (salt) (9CI) (CA INDEX NAME)

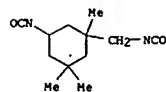
CH 1
CRN 64-19-7
CMF C2 H4 O2



CH 2

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L11 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

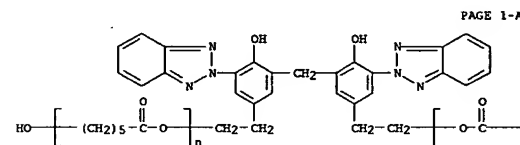


RN 413571-06-9 CAPLUS
CN Ethanol, 2,2'-(methylimino)bis-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and α,α' -(methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl)]bis[α -hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]]], block, acetate (salt) (9CI) (CA INDEX NAME)

CH 1
CRN 64-19-7
CMF C2 H4 O2



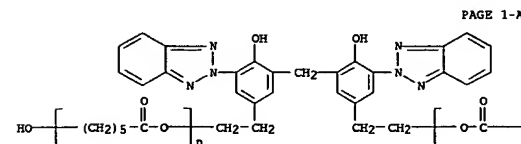
CH 2
CRN 413571-05-8
CMF (C12 H18 N2 O2)_n . (C6 H10 O2)_n (C6 H10 O2)_n C29 H26 N6 O4 . C5 H13 N O2)_x
CCI PMS
CH 3
CRN 214746-68-6
CMF (C6 H10 O2)_n (C6 H10 O2)_n C29 H26 N6 O4
CCI PMS



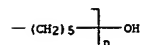
L11 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CRN 413571-08-1
CMF (C12 H18 N2 O2)_n . C8 H15 N O2 . (C6 H10 O2)_n (C6 H10 O2)_n C29 H26 N6 O4)_x
CCI PMS

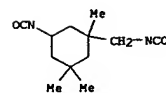
CH 3
CRN 214746-68-6
CMF (C6 H10 O2)_n (C6 H10 O2)_n C29 H26 N6 O4
CCI PMS



PAGE 1-B



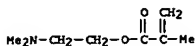
CH 4
CRN 4098-71-9
CMF C12 H18 N2 O2



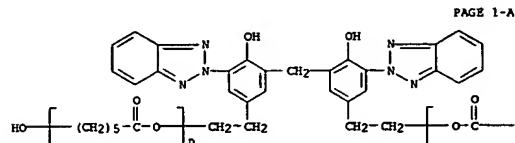
CH 5
CRN 2867-47-2
CMF C8 H15 N O2

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L11 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

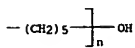


IT 214746-68-6P 215232-60-3P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
 (Reactant or reagent)
 (polymer compns. for light-resistant coatings for wood materials)
 RN 214746-68-6 CAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α,α' -[methylenebis[[5-(2H-
 benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -
 hydroxy- (9CI) (CA INDEX NAME)



PAGE 1-A

PAGE 1-B



RN 215232-60-3 CAPLUS
 CN 2-Oxepanone, homopolymer, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-
 3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

CH 1

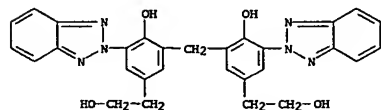
CRN 196516-61-7
 CMF C29 H26 N6 O4

L11 ANSWER 12 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

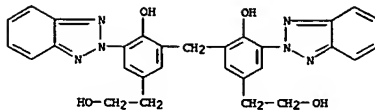
ACCESSION NUMBER: 2002:747949 CAPLUS
 DOCUMENT NUMBER: 137:264519
 TITLE: Aqueous coating compositions with high gloss and weather resistance
 INVENTOR(S): Shiono, Tadatoshi; Yagisawa, Noriyoshi; Ito, Hitoshi
 PATENT ASSIGNEE(S): Kansai Paint Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002285045	A	20021003	JP 2001-91526	20010328

PRIORITY APPLN. INFO.:
 AB Title compns. contain (A) fluoroolefin resin emulsions and (B) polymer emulsions prepared from (B1) monomer blends of 5-70:30-95 cycloalkyl-containing unsatd. compds. and other unsatd. compds. and (B2) UV absorbers and/or light stabilizers. A composition containing Lumiflon FE 4300, acrylic acid-Bu methacrylate-cyclohexyl methacrylate (I)-2-ethylhexyl acrylate-2-hydroxyethyl methacrylate-Me methacrylate-styrene copolymer (containing 40% I), and RUVA 100 was sprayed on an epoxy resin-coated steel plate and dried at 20° and 75% relative humidity for 1 wk to form a plate showing 60° gloss 81% with retention ≥80% after 3,000 h exposing under sunshine weatherometer and good weather-resistant adhesion.
 IT 196516-61-7, RUVA 100
 RL: TEM (Technical or engineered material use); USES (Uses) (aqueous coatings containing fluoroolefin resins and UV absorber- and/or light stabilizer-containing cycloalkyl acrylic resins)
 RN 196516-61-7 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy- (9CI) (CA INDEX NAME)]



L11 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CH 2

CRN 24980-41-4
 CMF (C6 H10 O2)x
 CCI PMS

CH 3

CRN 502-44-3
 CMF C6 H10 O2



L11 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:497247 CAPLUS
 DOCUMENT NUMBER: 137:70526
 TITLE: Resin composition containing ultraviolet absorbing resin for ink jet recording and recorded material
 INVENTOR(S): Sumida, Katsuhiko; Ikami, Kiyotaka
 PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002187344	A	20020702	JP 2000-385797	20001219

PRIORITY APPLN. INFO.:
 AB The resin composition for ink receiving layer comprises at least (a) 97-40 weight% inorg. particles, (b) 3-60 weight% binder resin containing a UV absorbing resin. The UV absorbing resin is emulsified by dispersing into water after neutralizing a resin solution obtained by urethane-~~reacting~~ a polyester-polyol with a UV absorbing group, a polyol compound, and an ionic group-containing compound with an organic polyisocyanate in an organic solvent. It forms the ink receiving layer with improved ink absorbency, and light stability.
 IT 413571-09-2P 439808-34-1P, Dimethylolbutanoic acid-isophorone diisocyanate-polycaprolactone MBEP ester copolymer 2-dimethylaminoethanol salt 439808-37-4P, Isophorone diisocyanate-polycaprolactone MBEP ester copolymer N-methyldiethanolamine salt
 RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (ink-jet printing sheet containing inorg. particle and resin with UV absorbing group)
 RN 413571-09-2 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and α,α' -[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]]], graft, acetate (salt) (9CI) (CA INDEX NAME)

CH 1

CRN 64-19-7
 CMF C2 H4 O2



CH 2

CRN 413571-08-1
 CMF (C12 H18 N2 O2 . C8 H15 N O2 . (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6

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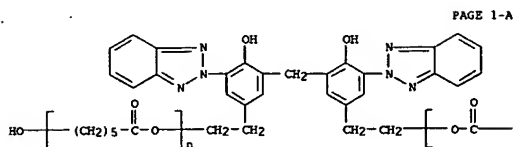
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L11 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

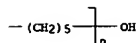
O4)x
CCI PMS

CM 3

CRN 214746-68-6

CMF (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4
CCI PMS

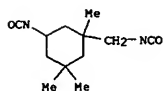
PAGE 1-B



CM 4

CRN 4098-71-9

CMF C12 H18 N2 O2



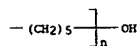
CM 5

CRN 2867-47-2

CMF C8 H15 N O2

L11 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

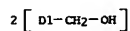
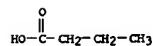


CM 4

CRN 56743-27-2

CMF C6 H12 O4

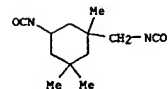
CCI IDS



CM 5

CRN 4098-71-9

CMF C12 H18 N2 O2



RN 439808-37-4 CAPLUS

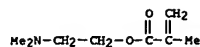
CM Poly[oxy(1-oxo-1,6-hexanediyl)], α,α'-[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α-hydroxy-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, compd. with 2,2'-(methylimino)bis[ethanol] (9CI) (CA INDEX NAME)]

CM 1

CRN 105-59-9

CMF C5 H13 N O2

L11 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



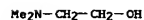
RN 439808-34-1 CAPLUS

CM Butanoic acid, bis(hydroxymethyl)-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and α,α'-[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)]

CM 1

CRN 108-01-0

CMF C4 H11 N O



CM 2

CRN 439808-33-0

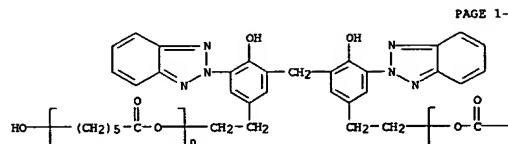
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CCI PMS

CM 3

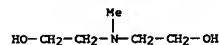
CRN 214746-68-6

CMF (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4

CCI PMS



L11 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 2

CRN 439808-36-3

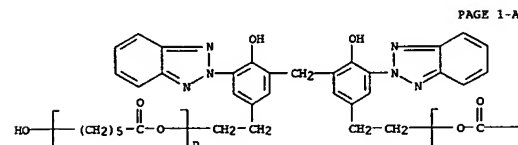
CMF [C12 H18 N2 O2 . (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4)x
CCI PMS

CM 3

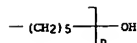
CRN 214746-68-6

CMF (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4

CCI PMS



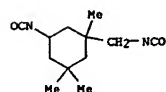
PAGE 1-B



CM 4

CRN 4098-71-9

CMF C12 H18 N2 O2

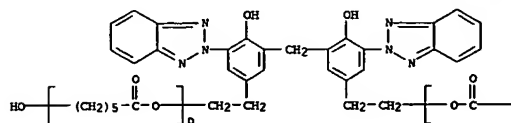


Karen Cheng

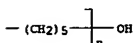
10562037

L11 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 IT 214746-68-6P 215232-60-3P
 RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 RN 214746-68-6 CAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α,α' -[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -hydroxy- (9CI) (CA INDEX NAME)]

PAGE 1-A



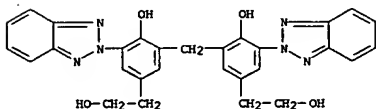
PAGE 1-B



RN 215232-60-3 CAPLUS
 CN 2-Oxepanone, homopolymer, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

CM 1

CRN 196516-61-7
 CMF C29 H26 N6 O4

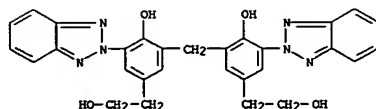


L11 ANSWER 14 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:349546 CAPLUS
 DOCUMENT NUMBER: 136:356126
 TITLE: Dielectric paste and optical semiconductor device
 INVENTOR(S): Shizuki, Hironori
 PATENT ASSIGNEE(S): Toshiba Chemical Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKKKAF
 Patent
 DOCUMENT TYPE: Japanese
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002134529	A	20020510	JP 2000-327963	20001027
PRIORITY APPL. INFO.:			JP 2000-327963	20001027

AB A UV- and weather-resistant dielec. paste suitable for bonding optical semiconductor elements comprises at least an organic binder, a solvent and/or monomers, and dielec. powder and is characterized by containing 0.1-10 weight (based on the solid resin content) of a compound having at least one benzotriazole group and methacryloyl or hydroxyethyl group. An optical semiconductor device comprising an optical semiconductor element bonded to a lead frame by using the paste is also claimed.

IT 196516-61-7
 RL: MOA (Modifier or additive use); USES (Uses)
 (dielec. paste and optical semiconductor device)
 RN 196516-61-7 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy- (9CI) (CA INDEX NAME)]



L11 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CM 2

CRN 21980-41-4
 CMF (C6 H10 O2)*
 CCI PMS

CM 3

CRN 502-44-3
 CMF C6 H10 O2



L11 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:315011 CAPLUS
 DOCUMENT NUMBER: 136:326372
 TITLE: Ultraviolet-absorbing polyester-polyurethane resins for aqueous emulsion coatings and aqueous polyester-polyurethane emulsions for artificial leather preparation
 INVENTOR(S): Inokami, Kiyotaka; Endo, Toshio; Fujii, Tatsumi
 PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 65 pp.
 CODEN: PIXXD2
 Patent
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

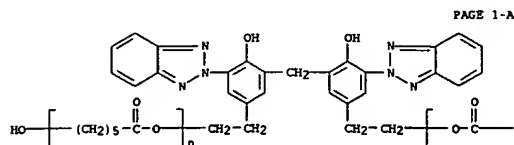
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032981	A1	20020425	WO 2001-JP9099	20011017
W: CN, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
JP 2002121253	A	20020423	JP 2000-317216	20001017
JP 2002145979	A	20020522	JP 2000-346500	20001114
JP 2002145976	A	20020522	JP 2000-346501	20001114
JP 2003012749	A	20030115	JP 2001-196432	20010628
EP 1334988	A1	20030813	EP 2001-978815	20011017
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
JP 2002226541	A	20020814	JP 2001-348005	20011113
US 2003144455	A1	20030731	US 2001-172402	20020614
PRIORITY APPL. INFO.:				
			JP 2000-317216	A 20001017
			JP 2000-346496	A 20001114
			JP 2000-346500	A 20001114
			JP 2000-346501	A 20001114
			JP 2001-196432	A 20010628
			WO 2001-JP9099	W 20011017

AB An aqueous emulsion of an UV-absorbing resin prepared by reacting a polyester polyol (A) having UV-absorbing groups with a compound (C) bearing an ionic and/or nonionic surface active group, an organic polyisocyanate (D), and, if necessary, a polyol (B) optionally in an organic solvent (S) to obtain an UV-absorbing resin (I) and neutralizing agent (E) is excellent in compatibility, light resistance, bleedout resistance, alkali resistance and solvent resistance and useful in the coating of artificial leather, plastics, woody materials and so on. Artificial leather made from an aqueous polyurethane emulsion constituted of a polyester diol (VIIIa) comprising one diol selected from among 2-n-butyl-2-ethyl-1,3-propanediol, 2,2-diethyl-1,3-propanediol and 2,4-diethyl-1,5-pentanediol, ϵ -caprolactone, and adipic acid as constituent units, a chain-lengthening agent (VIIIB), a compound (C) bearing an ionic and/or nonionic surface active group, an organic polyisocyanate (D), and a neutralizing agent (E) is excellent in softness, light resistance, resistance to hydrolysis, and heat resistance. Thus, 1,1-bis[3-(2H-benzotriazol-2-yl)-4-hydroxybenzeneethanol]methane (MBEP) initiated-polycaprolactone was reacted with IPDI and dimethylolbutanoic acid, and neutralized with dimethylaminoethanol to give an aqueous emulsion, 3 parts of which was mixed with 100 parts aqueous polyurethane emulsion (NeoRez R 960), and cast on a Teflon-coated glass plate to give a film showing good light resistance.

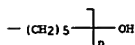
Karen Cheng

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L11 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 IT 214746-68-6P 215232-60-3P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate) preparation of UV-absorbing aqueous polyester-polyurethane resin emulsion compns. for coatings)
 RN 214746-68-6 CAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α,α' -[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -hydroxy- (9CI) (CA INDEX NAME)



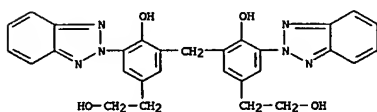
PAGE 1-B



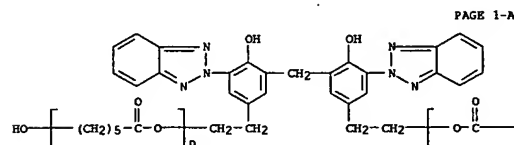
RN 215232-60-3 CAPLUS
 CN 2-Oxepanone, homopolymer, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

CM 1

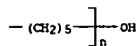
CRN 196516-61-7
 CMF C29 H26 N6 O4



L11 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CCI PMS

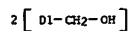
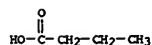


PAGE 1-B



CM 4

CRN 56743-27-2
 CMF C6 H12 O4
 CCI 105



CM 5

CRN 4098-71-9
 CMF C12 H18 N2 O2

L11 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CM 2

CRN 24980-41-4
 CMF (C6 H10 O2)x
 CCI PMS

CM 3

CRN 502-44-3
 CMF C6 H10 O2



IT 410074-08-7P 413571-06-9P 413571-09-2P
 413571-11-6P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (preparation of UV-absorbing aqueous polyester-polyurethane resin emulsion compns. for coatings)

RN 410074-08-7 CAPLUS

CN Butanoic acid, bis(hydroxymethyl)-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and α,α' -[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], block, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0
 CMF C4 H11 N O

Me₂N-CH₂-CH₂-OH

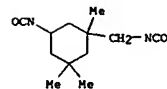
CM 2

CRN 410074-07-6
 CMF (C12 H18 N2 O2 . C6 H12 O4 . (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4)x
 CCI PMS

CM 3

CRN 214746-68-6
 CMF (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4

L11 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 413571-06-9 CAPLUS

CN Ethanol, 2,2'-(methylimino)bis-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and α,α' -[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], block, acetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 64-19-7
 CMF C2 H4 O2

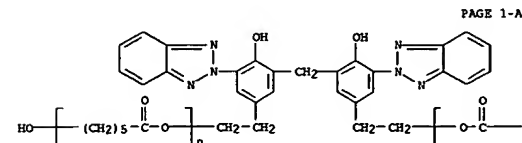


CM 2

CRN 413571-05-8
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 CCI PMS

CM 3

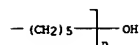
CRN 214746-68-6
 CMF (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4
 CCI PMS



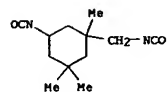
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L11 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

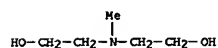
PAGE 1-B



CM 4

CRN 4098-71-9
CMF C12 H18 N2 O2

CM 5

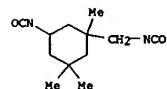
CRN 105-59-9
CMF C5 H13 N O2

RN 413571-09-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and alpha, alpha'-(methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]])bis[alpha-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], graft, acetate (salt) (9CI) (CA INDEX NAME)

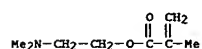
CM 1

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CMF C2 H4 O2

L11 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

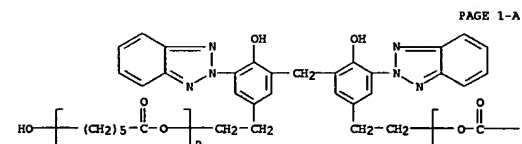


CM 5

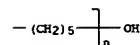
CRN 2867-47-2
CMF C8 H15 N O2

RN 413571-11-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(2-methoxyethoxy)ethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and alpha, alpha'-(methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]])bis[alpha-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], graft (9CI) (CA INDEX NAME)

CM 1

CRN 214746-68-6
CMF (C6 H10 O2)_n (C6 H10 O2)_n C29 H26 N6 O4
CCI PMS

PAGE 1-B



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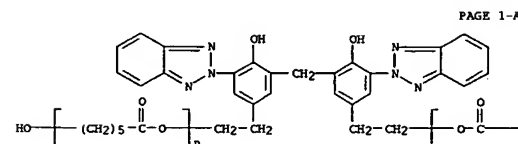
L11 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 2

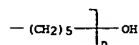
CRN 413571-08-1
CMF (C12 H18 N2 O2)_n (C8 H15 N O2)_n (C6 H10 O2)_n (C6 H10 O2)_n C29 H26 N6 O4
CCI PMS

CM 3

CRN 214746-68-6
CMF (C6 H10 O2)_n (C6 H10 O2)_n C29 H26 N6 O4
CCI PMS

PAGE 1-A

PAGE 1-B

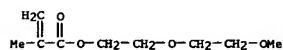


CM 4

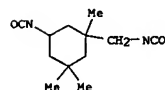
CRN 4098-71-9
CMF C12 H18 N2 O2

L11 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CM 2

CRN 45103-58-0
CMF C9 H16 O4

CM 3

CRN 4098-71-9
CMF C12 H18 N2 O2

REFERENCE COUNT:

11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10562037

L11 ANSWER 16 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:301758 CAPLUS
 DOCUMENT NUMBER: 136:310700
 TITLE: UV-absorbing polyester-polyurethanes and their aqueous emulsions with good chemical resistance and compatibility
 INVENTOR(S): Ikami, Kiyotaka; Endo, Toshiro; Fujii, Tatsumi
 PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JXOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002121253	A	20020423	JP 2000-317216	20001017
WO 2002032981	A1	20020425	WO 2001-JP9099	20011017
W: CN, KR, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1334988	A1	20030813	EP 2001-978815	20011017
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
TW 250171	B	20060301	TW 2001-90125653	20011017
PRIORITY APPLN. INFO.:				
JP 2000-317216 A 20001017				
JP 2000-346496 A 20001114				
JP 2000-346500 A 20001114				
JP 2000-346501 A 20001114				
JP 2001-196432 A 20010628				
WO 2001-JP9099 W 20011017				

AB The aqueous emulsions are manufactured by (A) reacting polyester polyols having UV-absorbing groups, compds. having carboxyl groups and active H groups, and organic polyisocyanates in organic solvents, (B) neutralizing

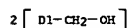
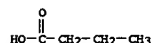
the resulting polymers, and (C) dispersing them in H₂O. Thus, bis[3-(2H-benzotriazole-2-yl)-4-hydroxybenzene]methane (MBEP) diester with polycaprolactone was reacted with IPDI and dimethylolbutanoic acid, neutralized with dimethylaminoethanol, emulsified in H₂O, mixed with a polyurethane aqueous emulsion (Neorez R 960), and cast on a glass plate to give a film showing elongation at break 198 and 195%, before and after an exposure test with a weather meter.

IT 410074-08-7P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (UV absorber: aqueous polyester-polyurethane emulsion
 UV-absorbers with good chemical resistance and compatibility)

RN 410074-08-7 CAPLUS
 CN Butanoic acid, bis(hydroxymethyl)-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and α,α' -[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediy]]bis[ω -hydroxypoly(oxy(1-oxo-1,6-hexanediy))], block, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

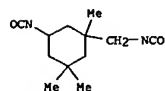
CH 1

L11 ANSWER 16 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



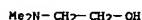
CH 5

CRN 4098-71-9
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L11 ANSWER 16 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CRN 108-01-0
 CMF C4 H11 N O

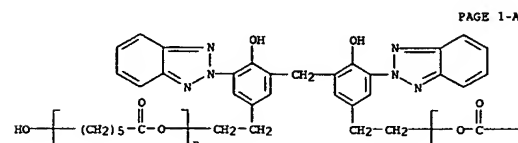


CH 2

CRN 410074-07-6
 CMF (C12 H18 N2 O2) . C6 H12 O4 . (C6 H10 O2)_n (C6 H10 O2)_n C29 H26 N6 O4)_x
 CCI PMS

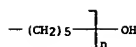
CH 3

CRN 214746-68-6
 CMF (C6 H10 O2)_n (C6 H10 O2)_n C29 H26 N6 O4
 CCI PMS



PAGE 1-A

PAGE 1-B



CH 4

CRN 56743-27-2
 CMF C6 H12 O4
 CCI 105

L11 ANSWER 17 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:113870 CAPLUS
 DOCUMENT NUMBER: 136:175546
 TITLE: Cellulose ester film, optical film, polarizing sheet, optical compensating film, and liquid crystal display
 INVENTOR(S): Ohno, Kaori; Michihata, Isamu
 PATENT ASSIGNEE(S): Konica Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
 CODEN: JXOXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002047357	A	20020212	JP 2001-122573	20010420
PRIORITY APPLN. INFO.:				
JP 2000-156039 A 20000526				

AB The cellulose ester film is (a) that containing a UV-absorbing polymer and showing 380-nm light transmission 0-10% and haze 0-0.5, (b) that containing

a UV-absorbing polymer involving repeating units (J1Sp1) [J1 = O, NR1, S, SO, SO2, PO, CO, CO2, NR2CO, NR3CO2, NR4CONR5, OCO, OC(O)NR6, C(O)NR7, NR8SO, NR9SO2, SONR10, SO2NR11; R1-R11 = H, alkyl, aryl; Sp1 = (halogen-containing or substituted) divalent linking group; having a UV-absorbing group linked directly or through a spacer to the backbone or the group involved in the backbone], and (c) that having a polymer involving a repeating unit associated with a UV-absorbing group unit having triazine- or benzotriazole-type structures. The cellulose ester composition containing the UV-absorbing polymer shows good film-forming property, i.e., prevention sticking to rollers. The optical film made of the above cellulose ester containing the polymer, the polarizing sheet having the 1st optical film, a polarizer, and the 2nd optical film wherein at least one of the optical film is made of the cellulose ester film, the liquid crystal display device using the polarizer sheet, and the optical compensation film using the cellulose ester film as the support are also claimed. The optical compensating film preferably has an optically anisotropic layer containing a discotic liquid crystal, a biaxially oriented liquid crystal,

or a rod liquid crystal.

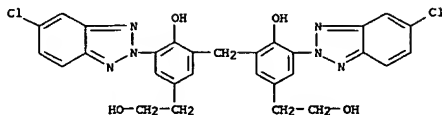
IT 396653-36-4P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (cellulose ester optical film containing UV-absorbing polymer)
 RN 396653-36-4 CAPLUS
 CN Hexanedioic acid, polymer with 3,3'-methylenebis[5-(5-chloro-2H-benzotriazol-2-yl)-4-hydroxybenzeneethanol] (9CI) (CA INDEX NAME)

CH 1

CRN 196516-62-8
 CMF C29 H24 Cl2 N6 O4

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L11 ANSWER 17 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CH 2

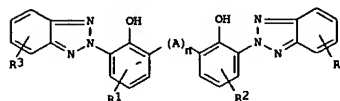
CRN 124-04-9
CMF C6 H10 O4HO₂C-(CH₂)₄-CO₂H

L11 ANSWER 18 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:36615 CAPLUS
DOCUMENT NUMBER: 136:103962
TITLE: Water-thinned coating compositions with good weather-resistant and stability
INVENTOR(S): Nakamura, Kokir Harakawa, Hiromi
PATENT ASSIGNEE(S): Kansai Paint Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKOXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002012823	A	20020115	JP 2000-189535	20000623
PRIORITY APPLN. INFO.:			JP 2000-128278	A 20000427

GI



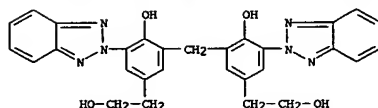
AB The composition comprises (A) a polymer aqueous emulsion, (B) curing agent and (C) bisbenzotriazole phenolic compound I (A = alkylene, O, NH, S, SO, SO₂; n = 0, 1; R₁, R₂ = OH, Cl-12 linear or branched hydroxyalkyl, radical polymerizable unsatd. group; (meth)acryloyl; R₃, R₄ = H, Cl-4 alkyl, Cl-4 alkoxy, aryl, halogen atom). Thus, 120 parts styrene-Bu acrylate-2-hydroxyethyl methacrylate-acrylic acid copolymer emulsion was mixed with Staphylolid WD 220 (MEK oxime-blocked HMDI) 40, RUVA 100 (UV absorbent) 1, MG 51 (aluminum pigment) paste 20, and dibutyltin dilaurate 2 parts, coated on a treated steel panel and cured, showing good weather and water resistance and adhesion.

IT 196516-61-7, RUVA 100
RI: MOA (Modifier or additive use); USES (Uses)
(UV absorbents: water-thinned coating compns. with good weather-resistant and stability)

RN 196516-61-7 CAPLUS

CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-9CI] (CA INDEX NAME)

L11 ANSWER 18 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L11 ANSWER 19 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:23533 CAPLUS
DOCUMENT NUMBER: 136:87298
TITLE: Two-liquid type waterborne coating compositions with good light and weather resistance and copolymer emulsions for use in them
INVENTOR(S): Nakamura, Kokir Harakawa, Hiromi
PATENT ASSIGNEE(S): Kansai Paint Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKOXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

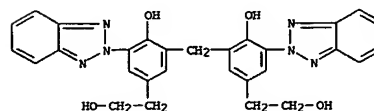
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002003538	A	20020109	JP 2000-190254	20000623
PRIORITY APPLN. INFO.:			JP 2000-190254	20000623

AB The compns. comprise (A) a base component obtained from the polymerization of a mixture of bisbenzotriazole phenol-type compound as retainable light stabilizer 0.1-10, cyclohexyl group-containing radical polymerizable monomers 5-60, OH group-containing radical polymerizable monomers 5-30 and other comonomers 0-89.9% in aqueous emulsion, and (B) polyisocyanate-based curing agents. Thus, adding 21 parts an emulsion containing Newcol 7075F (emulsifier) 0.5, water 85, styrene 20, cyclohexyl methacrylate 15, Me methacrylate 22, Bu methacrylate 17, 2-ethylhexyl acrylate 15, 2-hydroxyethyl methacrylate 10, acrylic acid 1, octyl mercaptan 1, RUVA-100 (2,2'-methylenebis[6-(2H-1,2,3-benzotriazol-2-yl)-4-(2-hydroxyethyl)phenol]) 2 and ammonium persulfate 0.25 parts and 0.25 parts persulfate to a premix of 309 parts water and 0.8 parts Newcol 7075F at 82°, after 20 min, adding the rest of the emulsion over 4 h, after 2 h at 82°, cooling to 40°, adding NH₃ water to pH 8.5 gave an emulsion with solids content 50%, which was used in a pigmented base component for coating curable by HDI trimer.

IT 196516-61-7, RUVA-100
RI: MOA (Modifier or additive use); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(light stabilizer; two-liquid type waterborne polyisocyanate-curable coating compns. with good light and weather resistance and copolymer emulsions for use in them)

RN 196516-61-7 CAPLUS

CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-9CI] (CA INDEX NAME)



Karen Cheng

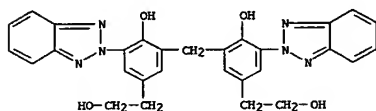
10562037

L11 ANSWER 20 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:864997 CAPLUS
 DOCUMENT NUMBER: 136:14033
 TITLE: Electrically conductive pastes and optical semiconductor devices manufactured by using them with excellent UV and weather resistance
 INVENTOR(S): Shizuki, Hironori
 PATENT ASSIGNEE(S): Toshiba Chemical Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001332124	A	20011130	JP 2000-149863	20000522

PRIORITY APPLN. INFO.:
 AB The pastes, useful for bonding blue LED chips to lead frames, contain organic binders, solvents and/or monomers, Ag-containing elec. conductive powders, and 0.1-10% (based on resin solids content) compds. having ≥ 1 benzotriazole structures and methacryloyl or hydroxyethyl groups. The compds. may be copolyd. with the monomers in advance. The powders may contain 5-20% TiO₂.
 IT 196516-61-7
 RL: MOA (Modifier or additive use); USES (Uses)
 (UV absorber; elec. conductive pastes containing benzotriazole compds. for optical semiconductor devices with good UV and weather resistance)
 RN 196516-61-7 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-(9CI)] (CA INDEX NAME)



L11 ANSWER 21 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

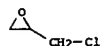
CM 2
 CRN 105268-97-1
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

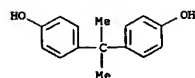
CM 3
 CRN 96119-31-2
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4
 CRN 106-89-8
 CMF C3 H5 Cl O



CM 5
 CRN 80-05-7
 CMF C15 H16 O2

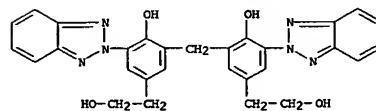


L11 ANSWER 21 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:840456 CAPLUS
 DOCUMENT NUMBER: 135:372699
 TITLE: Electrically insulating pastes having excellent resistance to UV and weather for semiconductor devices
 INVENTOR(S): Sano, Shinichiro
 PATENT ASSIGNEE(S): Toshiba Chemical Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001316596	A	20011116	JP 2000-137928	20000511

PRIORITY APPLN. INFO.:
 AB The pastes comprise organic binders, solvents and/or monomers, elec. insulating powders, and 0.1-10% (based on polymer solids) compds. having ≥ 1 benzotriazole skeleton and methacryloyl or hydroxyethyl group. Thus, a silicone chip was bonded to a lead frame with a paste containing cresol novolak epoxy resin (EOCN 1035) 80, bisphenol A epoxy resin (Epikote 1007) 20, phenolic resin (BRG 558) 40, TiO₂ 5, and bis[2-hydroxy-5-(2-hydroxyethyl)-3-(2H-benzotriazol-2-yl)]methane 1 part and cured, resulting in adhesion strength 7.4 kg at 25° initially and 6.8 after 300 h at 25° in sunshine weatherometer.
 IT 373386-44-8P, bis[2-hydroxy-5-(2-hydroxyethyl)-3-(2H-benzotriazol-2-yl)]methane; BRG 558-EOCN 1035-Epikote 1007 copolymer
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (elec. insulating pastes having good resistance to UV and weather for semiconductor devices)
 RN 373386-44-8 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-, polymer with (chloromethyl)oxirane, EOCN 1035, 4,4'-(1-methylethylidene)bis[phenol] and Shenol BRG 558 (9CI) (CA INDEX NAME)
 CM 1
 CRN 196516-61-7
 CMF C29 H26 N6 O4

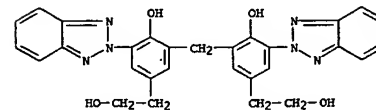


L11 ANSWER 22 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:210179 CAPLUS
 DOCUMENT NUMBER: 134:246016
 TITLE: UV- and weather-resistant conductive pastes
 INVENTOR(S): Shizuki, Hironori
 PATENT ASSIGNEE(S): Toshiba Chemical Corp., Japan; Kyocera Chemical Corp.
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001076534	A	20010323	JP 1999-249603	19990903
JP 3769152	B2	20060419		

PRIORITY APPLN. INFO.:
 AB The pastes contain organic binders, solvents and/or monomers, conductive powders involving Ag-type powders, and 0.1-10% (on resin solids) compds. (A) bearing ≥ 1 benzotriazole backbones in the mols. and having methacryloyl or CH₂CH₂OH as functional groups. The compds. A may be compounded in the pastes as copolymers. The pastes are especially suitable for semiconductor device assemblies mounting compound semiconductor chips, etc.
 IT 196516-61-7
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (UV- and weather-resistant conductive pastes containing benzotriazoles for semiconductor device fabrication)
 RN 196516-61-7 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-(9CI)] (CA INDEX NAME)

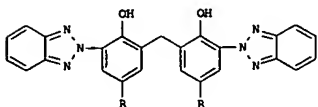


10562037

L11 ANSWER 23 OF 37 CAPIUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:673964 CAPIUS
 DOCUMENT NUMBER: 133:259364
 TITLE: Thermal printing material and card using same
 INVENTOR(S): Mori, Hiroshi
 PATENT ASSIGNEE(S): Ohsuka Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000263943	A	20000926	JP 1999-76560	19990319

PRIORITY APPLN. INFO.:
 OTHER SOURCE(S): MARPAT 133:259364
 GI



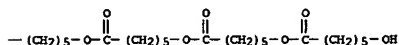
AB The material possesses, on a support, a heat-sensitive layer containing a leuco dye, a color developer, a sensitizer, and a methylenebisbenzotriazole compound I [R = (CH₂)₂₀(CO(CR₁R₂)_n)_mH; R₁, R₂ = H, C₁-10 alkyl; n = 0-4; m = 0-20] as an UV absorbent. The material may contain a resin layer containing the UV absorbent as the uppermost protective layer. The card possesses an imaging layer made of the material. The material shows high thermal sensitivity and provides high d. images and low d. backgrounds both of which show improved thermal resistance and weatherability.

IT 250252-46-1P 250252-47-2P
 RI: DEV (Device component use); PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (thermal printing material containing benzotriazole derivative UV absorbent)

RN 250252-46-1 CAPIUS
 CN Hexanoic acid, 6-[[6-[(6-hydroxy-1-oxohexyl)oxy]-1-oxohexyl]oxy]-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

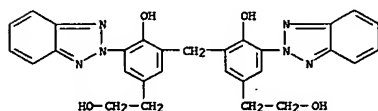
L11 ANSWER 23 OF 37 CAPIUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-C



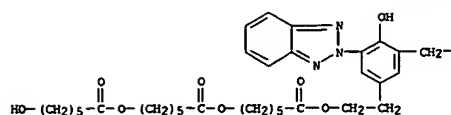
IT 196516-61-7, 2,2'-Methylenebis[6-(2H-1,2,3-benzotriazol-2-yl)-4-(2-hydroxyethyl)phenol]
 RI: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (thermal printing material containing benzotriazole derivative UV absorbent)

RN 196516-61-7 CAPIUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy- (9CI) (CA INDEX NAME)]

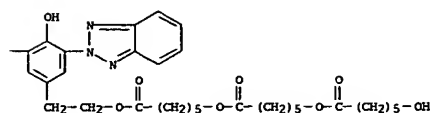


L11 ANSWER 23 OF 37 CAPIUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

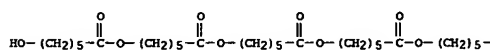


PAGE 1-B

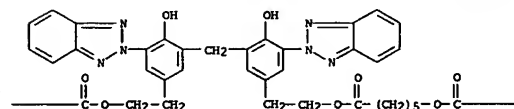


RN 250252-47-2 CAPIUS
 CN 7,14,21,28-Tetraoxatetracontanoic acid, 34-hydroxy-8,15,22,29-tetraoxo-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L11 ANSWER 24 OF 37 CAPIUS COPYRIGHT 2007 ACS on STN

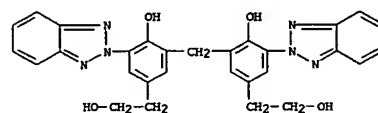
ACCESSION NUMBER: 2000:551314 CAPIUS
 DOCUMENT NUMBER: 133:164917
 TITLE: Vehicles headlight with good yellowing resistance
 INVENTOR(S): Makimura, Yoichiro; Sato, Takeshi
 PATENT ASSIGNEE(S): Takiron Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000222912	A	20000811	JP 1999-22856	19990129

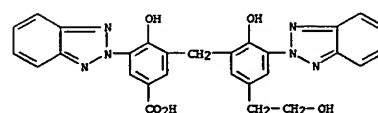
PRIORITY APPLN. INFO.:
 JP 1999-22856 19990129

AB The headlight comprises a light source, a curvature reflector, and a front cover, where the front cover is derived from thermoplastic polyester-type resin containing UV absorbers which have at least one OH, COOH and amino functional group and are linked chemical with the polyester resin. A front cover was prepared from 100 parts polycarbonate and 3 parts 2,2'-methylenebis[4-(hydroxyethyl)-6-(2H-benzotriazol-2-yl)phenol], showing good yellowing resistance.

IT 196516-61-7 226986-28-3
 RI: MOA (Modifier or additive use); USES (Uses) (UV absorbers; vehicles headlight with good yellowing resistance)
 RN 196516-61-7 CAPIUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy- (9CI) (CA INDEX NAME)]



RN 226986-28-3 CAPIUS
 CN Benzoic acid, 3-(2H-benzotriazol-2-yl)-5-[[3-(2H-benzotriazol-2-yl)-2-hydroxy-5-(2-hydroxyethyl)phenyl]methyl]-4-hydroxy- (9CI) (CA INDEX NAME)



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L11 ANSWER 25 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:260249 CAPLUS

DOCUMENT NUMBER: 132:280628

TITLE: Bisbenzotriazolylphenol compounds, ultraviolet absorbers, ultraviolet-absorbing polymer, and resin compositions and coating materials containing them

INVENTOR(S): Daimon, Emiko; Mori, Koji; Akada, Mitsuo

PATENT ASSIGNEE(S): Otsuka Chemical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

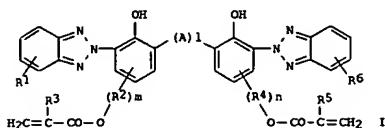
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

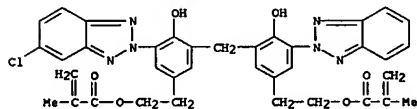
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WD 2000021937	A1	20000420	WD 1999-JP5525	19991006
V: US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 2000119262	A	20000425	JP 1998-291847	19981014
JP 3024960	B2	20000327		
EP 1055669	A1	20001129	EP 1999-970384	19991006
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6414100	B1	20020702	US 2000-581162	20000613
PRIORITY APPLN. INFO.:				
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			WD 1999-JP5525	W 19991006
OTHER SOURCE(S):				
MARPAT 132:280628				
GI				



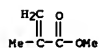
AB Compds. I (A = CH₂, OMe₂, CMe₂; R₁, R₆ = H, Cl-4 alkyl, aryl, Cl-4 alkory, halo; R₂, R₄ = linear or branched Cl-6 alkylene; R₃, R₅ = H, Me; 1, m, n = 0, 1), useful for preparation of UV-absorbing coatings or as UV stabilizers, are prepared. Thus, a composition containing Art Resin UN 3320HA (urethane acrylate oligomer) 4.0, pentaerythritol triacrylate 3.0, dipentaerythritol hexaacrylate 3.0, 2,2'-methylenebis[6-(2H-benzotriazole-2-yl)-4-(2-methacryloyloxyethyl)phenol] 0.3, and Darocur 1173 0.3 g was applied on a polycarbonate substrate, and irradiated by UV to give coatings showing good weather resistance.

IT 263909-72-4P 263909-74-6P 263909-76-8P

L11 ANSWER 25 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

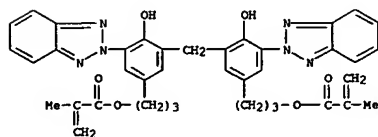


CH 2

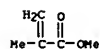
CRN 80-62-6
CMF C5 H8 O2

RN 263909-76-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-3,1-propanediyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CH 1

CRN 263909-67-7
CMF C39 H38 N6 O6

CH 2

CRN 80-62-6
CMF C5 H8 O2

RN 263909-78-0 CAPLUS

Karen Cheng

L11 ANSWER 25 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

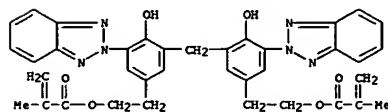
263909-78-0P 263909-81-5P 263909-83-7P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (bisbenzotriazolylphenol compds., UV absorbers, and UV-absorbing polymers for coatings)

RN 263909-72-4 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CH 1

CRN 263909-63-3
CMF C37 H34 N6 O6

CH 2

CRN 80-62-6
CMF C5 H8 O2

RN 263909-74-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-5-[[3-(5-chloro-2H-benzotriazol-2-yl)-2-hydroxy-5-[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]phenyl]methyl]-4-hydroxyphenyl]ethyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

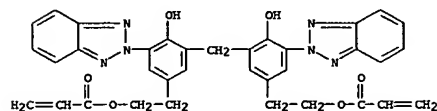
CH 1

CRN 263909-65-5
CMF C37 H33 Cl N6 O6

L11 ANSWER 25 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl di-2-propenoate (9CI) (CA INDEX NAME)

CH 1

CRN 263909-70-2
CMF C35 H30 N6 O6

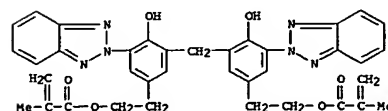
CH 2

CRN 80-62-6
CMF C5 H8 O2

RN 263909-81-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl ester, polymer with Art Resin UN 3320HA, 2-(hydroxymethyl)-2-[[1-(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and 2-[[3-[[1-(1-oxo-2-propenyl)oxy]-2-bis[[1-(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

CH 1

CRN 263909-63-3
CMF C37 H34 N6 O6

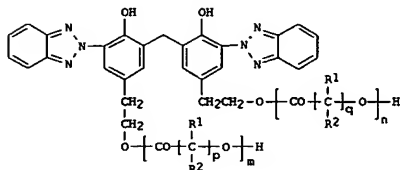
CH 2

Karen Cheng

10562037

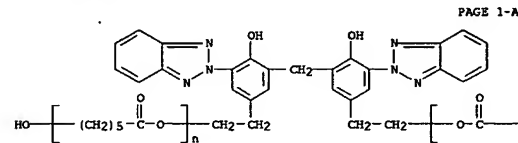
L11 ANSWER 26 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:249877 CAPLUS
 DOCUMENT NUMBER: 132:280580
 TITLE: UV-shielding photocurable polymer compositions, their use in coating materials, and moldings covered with them
 INVENTOR(S): Imai, Toshiyuki; Katayama, Shinichi; Mori, Hiroshi; Akada, Mitsuo; Ishida, Koji
 PATENT ASSIGNEE(S): Arakawa Chemical Industries, Ltd., Japan; Ohtsuka Chemical Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000109652	A	20000418	JP 1998-280383	19981001
PRIORITY APPLN. INFO.: G1			JP 1998-280383	19981001

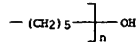


AB The comps. comprise thermally cured products of photocurable comps. containing polymers having (meth)acrylic equivalent 100-300 g/equiv, OH value 20-500, and weight-average mol. weight 5000-50,000, polyisocyanates, and I (R1, R2 = H, C1-10 alkyl; p, q = 4-8; m, n = 1-20). Thus, a mixture containing acrylic acid-glycidyl methacrylate-Me methacrylate copolymer (acrylic equivalent 270 g/equiv, OH value 204, Mw 18,000), I (R1, R2 = H; p, q = 5; prepared by polymerization of caprolactone in the presence of 2,2'-methylenebis[6-(2H-1,2,3-benzotriazole-2-yl)-4-(2-hydroxyethyl)phenol]], Coronate EX (1,6-hexane diisocyanate trimer), and a photopolym. initiator was applied on an acrylic resin sheet, heated, and UV-cured to give a sheet with coatings showing high surface hardness and weather resistance.
 IT 214746-68-6P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); RCT

L11 ANSWER 26 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



PAGE 1-B



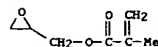
CM 2

CRN 144245-98-7
 CMF Unspecified
 CCI FMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

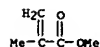
CM 3

CRN 106-91-2
 CMF C7 H10 O3



CM 4

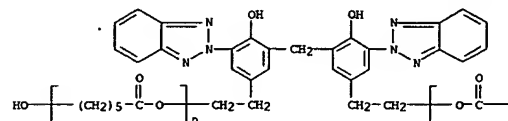
CRN 80-62-6
 CMF C5 H8 O2



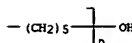
Karen Cheng

L11 ANSWER 26 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 (Reactant); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (UV-shielding photocurable resin comps. for abrasion-, chem., weather- and crack-resistant coatings)
 RN 214746-68-6 CAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α,α' -[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



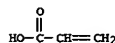
IT 263904-11-6P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (UV-shielding photocurable resin comps. for abrasion-, chemical, weather- and crack-resistant coatings)
 RN 263904-11-6 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with Coronate EX, α,α' -[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], oxiranylmethyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)
 CM 1
 CRN 214746-68-6
 CMF (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4
 CCI FMS

L11 ANSWER 26 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CM 5

CRN 79-10-7
 CMF C3 H4 O2

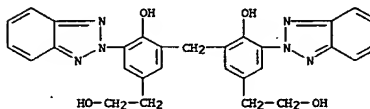


IT 196516-61-7, RUVA 100

RL: RCT (Reactant); RACT (Reactant or reagent)
 (UV-shielding photocurable resin comps. for abrasion-, chemical, weather- and crack-resistant coatings)

RN 196516-61-7 CAPLUS

CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy- (9CI) (CA INDEX NAME)



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L11 ANSWER 27 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:241090 CAPLUS
 DOCUMENT NUMBER: 132:280643
 TITLE: Transfer sheets for protecting molded articles and UV
 absorbers for use in the sheets
 INVENTOR(S): Nakamura, Yuzo
 PATENT ASSIGNEE(S): Nissha Printing Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 36 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000020228	A1	20000413	WO 1999-JP5314	19990929
V: CA, CN, XR, SG, US				
RV: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 2000109682	A	20000418	JP 1998-296212	19981001
JP 3585748	B2	20041104		
JP 2000109773	A	20000418	JP 1998-296213	19981001
JP 3514640	B2	20040331		
CA 2345361	A1	20000413	CA 1999-2345361	19990929
EP 1125764	A1	20010822	EP 1999-970058	19990929
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6527898	B1	20030304	US 2001-787552	20010320

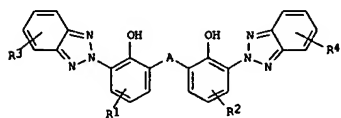
PRIORITY APPLN. INFO.:
 JP 1998-296212 A 19981001
 JP 1998-296213 A 19981001
 WO 1999-JP5314 W 19990929

OTHER SOURCE(S): MARPAT 132:280643
 AB The transfer sheets comprise a releasable base sheet and a protective layer derived from a composition containing radiation-curable polymers having a (meth)acrylic equivalent of 100 to 300 g/equiv, a hydroxyl value of 20 to 500, and a weight-average mol. weight of 5,000 to 50,000, a polyfunctional isocyanate, and a UV absorber of bisbenzotriazole-type compds. for preventing their bleeding from resins. Thus, coating a composition containing the curable varnish of a glycidyl methacrylate-Me methacrylate copolymer in acrylic acid, 100, Coronate EX 5, Irgacure 184 (photoinitiator) 5 and RUVA-100 (2,2'-methylenebis[6-(2H-1,2,3-benzotriazol-2-yl)-4-(2-hydroxyethyl)phenol]]-n-caprolactone adduct 10 parts on the release surface of a melamine resin release-coated PET polyester film to a pickup thickness of 5 μ m, heating at 150° for 20 s and printing on top with designs using an acrylic ink gave a transfer which adhered to an acrylic molding surface without wrinkle and could be cured with UV light.
 IT 250252-46-1P
 RI: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (UV-light stabilizer; transfer sheets for protecting molded articles and UV absorbers for use in protective layer)

L11 ANSWER 28 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:218611 CAPLUS
 DOCUMENT NUMBER: 132:252558
 TITLE: Water-thinned coating compositions with good emulsion stability
 INVENTOR(S): Yanamoto, Minoru; Mori, Hiroshi; Akada, Mitsuo
 PATENT ASSIGNEE(S): Ohtsuka Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JXOXA2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

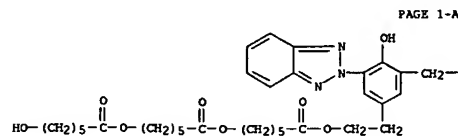
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000095981	A	20000404	JP 1998-269882	19980924
JP 3004261	B2	20000131		

PRIORITY APPLN. INFO.:
 JP 1998-269882 19980924
 OTHER SOURCE(S): MARPAT 132:252558
 GI

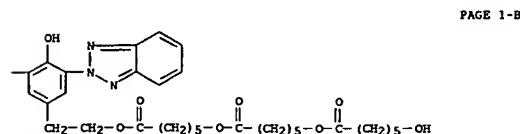


AB Title compns. contain (A) polymers obtained by polymerization of ≥ 1 monomers selected from (meth)acrylic acid, (meth)acrylic acid esters, and aromatic vinyl compds. in the presence of emulsifying agents and (B) bis(benzotriazolylphenol) compds. I [A = methylene; R3, R4 = H, C1-4 alkyl, aryl, C1-4 alkoxy, halo; R1, R2 = R5O[C(=O)(CR6R7)O]mH; R5 = none, C1-12 normal or branched alkylene; R6, R7 = H, C1-10 alkyl; m = 1-20; n = 4-8]. Thus, a composition containing acrylic acid-Bu acrylate-Me methacrylate copolymer ammonium salt, Newcol 520 (anionic emulsifier), Newcol 723 (nonionic emulsifier), and 2,2'-methylenebis[6-(2H-1,2,3-benzotriazol-2-yl)-4-(3-hydroxypropanoyloxyethyl)phenol] was applied on a tinplate to give a test piece showing good weather resistance.
 IT 262427-76-9 262427-77-0 262427-78-1
 262427-79-2
 RI: MOA (Modifier or additive use); USES (Uses)
 (UV absorbers; water-thinned coating compns. with good emulsion stability and high weather resistance)
 RN 262427-76-9 CAPLUS
 CN Propanoic acid, 3-hydroxy-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

L11 ANSWER 27 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 RN 250252-46-1 CAPLUS
 CN Hexanoic acid, 6-[[[6-[(6-hydroxy-1-oxohexyl)oxy]-1-oxohexyl]oxy]-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)



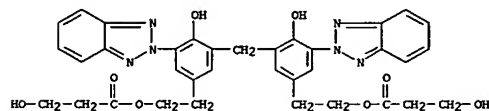
PAGE 1-A



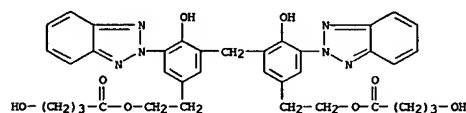
PAGE 1-B

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 28 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

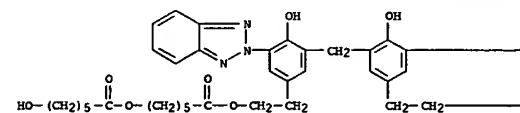


RN 262427-77-0 CAPLUS
 CN Butanoic acid, 4-hydroxy-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

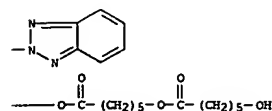


RN 262427-78-1 CAPLUS
 CN Hexanoic acid, 6-[[[6-[(6-hydroxy-1-oxohexyl)oxy]-1-oxohexyl]oxy]-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

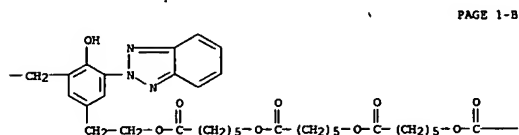
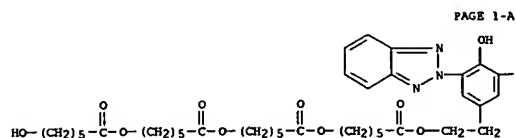


RN 262427-79-2 CAPLUS
 CN Hexanoic acid, 6-[[[6-[[[6-[(6-hydroxy-1-oxohexyl)oxy]-1-oxohexyl]oxy]-1-oxohexyl]oxy]-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

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L11 ANSWER 28 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



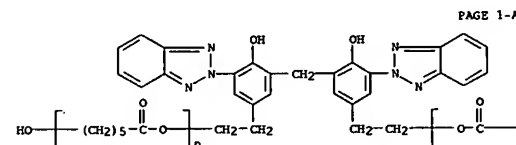
L11 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, Coronate L, ethenyl acetate, ethenylbenzene, 2-ethylhexyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, α,α'-[methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]]], methyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 214746-68-6

CMF (C6 H10 O2)n (C6 H10 O2)n C29 H26 N6 O4

CCI PMS



CM 2

CRN 39278-79-0

CMF Unspecified

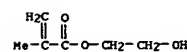
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 868-77-9

CMF C6 H10 O3



L11 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:216114 CAPLUS

DOCUMENT NUMBER: 132:252153

TITLE: Pressure-sensitive adhesive sheets with excellent

weather resistance

INVENTOR(S): Mori, Koji; Akada, Mitsuo

PATENT ASSIGNEE(S): Ohtsuka Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKOXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

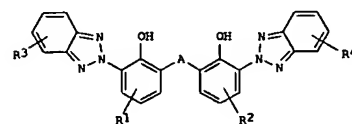
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000096032	A	20000404	JP 1998-269883	19980924
JP 3046007	B2	20000529	JP 1998-269883	19980924

PRIORITY APPLN. INFO.: MARPAT 132:252153

OTHER SOURCE(S): GI



AB The adhesive sheets consist of a fluoro resin film and pressure-sensitive adhesive layer(s) formed from compns. based on acrylic, vinyl acetate-, EVA-, polyurethane-, SBR-, natural rubber-, isoprene rubber-, NBR-, and/or silicone-based adhesive resins and bis(benzotriazolyl)phenols 1 [A = direct link, CH₂, C2-6 linear or branched alkylene, O, NH; R₃, R₄ = H, C1-4 alkyl, aryl, C1-4 alkoxy, halo; R₁, R₂ = R₅O[CO(CR₆R₇)_nO]mH; R₅ = direct link, C1-12 linear or branched alkylene; R₆, R₇ = H, C1-10 alkyl; m = 1-20; n = 4-8]. Thus, 129.3 g Ruva 100 was treated with 170.3 g α-caprolactone to give 98% product, which was added 1% to an acrylic adhesive (2-ethylhexyl acrylate-Bu acrylate-vinyl acetate-styrene-Me methacrylate-acrylic acid-methacrylic acid-2-hydroxyethyl methacrylate copolymer in PhMe), then the adhesive composition was blended with Coronate L, made into a film, and laminated on a fluoropolymer film to give an adhesive sheet showing good adhesion to a PMMA plate even after weathering.

IT 262847-61-0P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (pressure-sensitive adhesive sheets containing bis(benzotriazolyl)phenol compds. with good weather resistance)

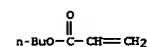
RN 262847-61-0 CAPLUS

L11 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CM 4

CRN 141-32-2

CMF C7 H12 O2



CM 5

CRN 108-05-4

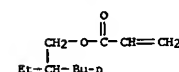
CMF C4 H6 O2



CM 6

CRN 103-11-7

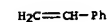
CMF C11 H20 O2



CM 7

CRN 100-42-5

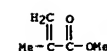
CMF C8 H8



CM 8

CRN 80-62-6

CMF C5 H8 O2



Karen Cheng

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L11 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN 9

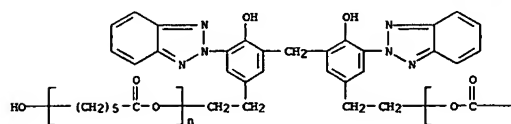
CRN 79-41-4
CMF C4 H6 O2

CN 10

CRN 79-10-7
CMF C3 H4 O2

IT 214746-68-6P 215232-60-3P
 RI: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (pressure-sensitive adhesive sheets containing bis(benzotriazolyl)phenol compds. with good weather resistance)
 RN 214746-68-6 CAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α,α' -[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -hydroxy- (9CI) (CA INDEX NAME)]

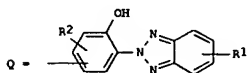
PAGE 1-A



L11 ANSWER 30 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:216029 CAPLUS
 DOCUMENT NUMBER: 132:251904
 TITLE: Benzotriazole group-containing polyesters with good compatibility to resins, their manufacture, UV absorbers, and chemically resistant resin compositions containing them
 INVENTOR(S): Endo, Toshio; Isobe, Tomohisa; Okumura, Koichi
 PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000095849	A	20000404	JP 1998-265877	19980921
KR 2000013679	A	20000306	KR 1998-32674	19980812
			JP 1998-265877	A 19980921

PRIORITY APPLN. INFO.:
GI

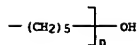
AB QR30[CO(CR4R5)nO]mH or H[O(CR4R5)nCO]mQ[CO(CR4R5)pO]qH [Q = 1; Q' = 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxybenzeneethanol] residue or its derivs.; R1 = H, halo, C1-10-alkyl; R2, R4, R5 = H, C1-10-alkyl; R3 = C1-10-alkylene; n, p = 4-8; m, q = 1-20] are manufactured

by ring-opening polymerization of lactones with the corresponding benzotriazole-containing alcs. Thus, 100 parts polypropylene was mixed with 2 parts polyester prepared from 342 g α -caprolactone and 134.5 g JF 269 [3-(2H-benzotriazol-2-yl)-4-hydroxybenzeneethanol] and injection-molded to give a dumbbell test piece, showing no change in tensile breaking elongation during a 2000-h exposure test.

IT 214746-68-6P 215232-60-3P
 RI: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (benzotriazole group-containing polyesters for chemical and light-resistant resin compns.)
 RN 214746-68-6 CAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α,α' -[methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl]]bis[α -hydroxy- (9CI) (CA INDEX NAME)]

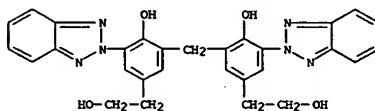
L11 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B



RN 215232-60-3 CAPLUS
 CN 2-Oxepanone, homopolymer, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

CN 1

CRN 196516-61-7
CMF C29 H26 N6 O4

CN 2

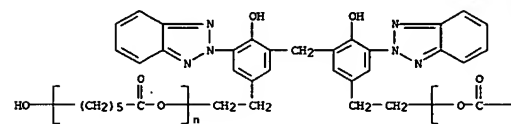
CRN 24980-41-4
CMF (C6 H10 O2)*
CCI PMS

CN 3

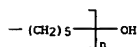
CRN 502-44-3
CMF C6 H10 O2

L11 ANSWER 30 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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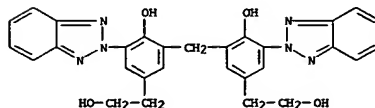


PAGE 1-B



RN 215232-60-3 CAPLUS
 CN 2-Oxepanone, homopolymer, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

CN 1

CRN 196516-61-7
CMF C29 H26 N6 O4

CN 2

CRN 24980-41-4
CMF (C6 H10 O2)*
CCI PMS

CN 3

CRN 502-44-3
CMF C6 H10 O2

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L11 ANSWER 30 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L11 ANSWER 31 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:168138 CAPLUS
 DOCUMENT NUMBER: 132:223375
 TITLE: Benzotriazole group-containing polyester UV absorbents
 INVENTOR(S): Okumura, Koichi; Endo, Toshio; Isobe, Tomohisa
 PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: U.S., 20 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6037393	A	20000314	US 1998-164665	19981001
CN 1246476	A	20000308	CN 1998-118816	19980827
CN 1125820	B	20031029		
EP 989124	A1	20000329	EP 1998-402368	19980925
EP 989124	B1	20020814		

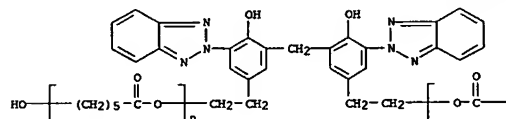
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.: US 1998-164665 A 19981001

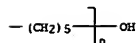
AB Polyester compds. having a benzotriazole group are obtained by a ring-opening addition-polymerization of lactones with the alc. hydroxyl group of 3-(5-chloro-2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxy-benzene-propanol, 3-(2H-benzotriazol-2-yl)-4-hydroxy-benzene-ethanol, 3-(5-methyl-2H-benzotriazol-2-yl)-5-(1-methyl-ethyl)-4-hydroxy-benzene-propanolbis[3-(2H-benzotriazol-2-yl)-4-hydroxy-benzene-ethanol]methane or the like. These compds. are used as UV absorbents for thermoplastic resins. The resulting resin composition has an excellent light resistance and chemical resistance.

IT 214746-68-6P 215232-60-3P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (UV absorbent; benzotriazole group-containing polyester UV absorbents)
 RN 214746-68-6 CAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediy)]], a,a'-[methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediy]]bis[ω -hydroxy- (9CI) (CA INDEX NAME)]

PAGE 1-A



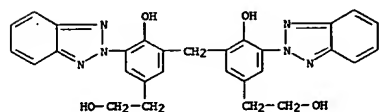
L11 ANSWER 31 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 PAGE 1-B



RN 215232-60-3 CAPLUS
 CN 2-Oxepanone, homopolymer, methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediy]] ester (9CI) (CA INDEX NAME)

CH 1

CRN 196516-61-7
 CMF C29 H26 N6 O4



CH 2

CRN 24980-41-4
 CMF (C6 H10 O2) x
 CCI PMS

CH 3

CRN 502-44-3
 CMF C6 H10 O2



L11 ANSWER 32 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:105257 CAPLUS
 DOCUMENT NUMBER: 132:153390
 TITLE: Transfer films with excellent weatherability
 INVENTOR(S): Mori, Hiroshi; Akata, Mitsuo
 PATENT ASSIGNEE(S): Otsuka Chemical Co., Ltd., Japan; Otsuka Chemical Holdings Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JXOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000044901	A	20000215	JP 1998-216845	19980731
JP 3640806	B2	20050420		

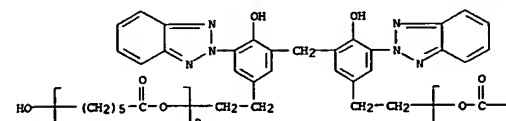
PRIORITY APPLN. INFO.: JP 1998-216845 19980731

AB The transfer films consist of a base sheet, a transfer layer, and an adhesive layer in this order, where the transfer layer contains UV-absorbing polymers prepared by copolym. of unsatd. monomers with ω monomers selected from 2-[2-hydroxy(2-propenoyloxy)alkyl]phenyl]-2H-benzotriazoles or their derivs., 2-hydroxy(2-propenoyloxy)alkoxybenzophenones or their derivs., and 2,4-diphenyl-6-[2-hydroxy-4-[(2-propenoyloxy)alkoxy]phenyl]-s-triazines or their derivs. Alternatively the transfer layer contains polyester polyols having bis(benzotriazolylphenol) unit. Thus, 3-methacryloxypropyltrimethoxysilane (S 710) 76, 3-methacryloxypropyltris(trimethylsiloxy)silane 71, and 2-[2-hydroxy-(5-methacryloxyethyl)phenyl]-2H-benzotriazole (Ruvs 93) 150 g were copolymd. in PhMe in the presence of AIBN to give a UV-absorbing polymer solution, 5 parts (as solid) of which was mixed with 100 parts siloxane (NSC 2319) and 5 parts γ -aminopropyltriethoxysilane and applied on a PET film. Acrylic resin (LR 1065) and an adhesive (S-Lec A) were applied on the resulting transfer layer in this order and then a polycarbonate sheet was coated with the transfer film to show pencil hardness 4H, good adhesion, and no yellowing or cracks in a weathering test.

IT 214746-68-6P 215232-60-3P
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (weather-resistant transfer films)

RN 214746-68-6 CAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediy)]], a,a'-[methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediy]]bis[ω -hydroxy- (9CI) (CA INDEX NAME)]

PAGE 1-A



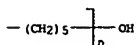
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L11 ANSWER 32 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L11 ANSWER 32 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

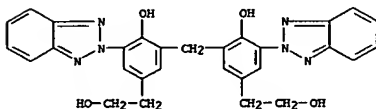
PAGE 1-B



RN 215232-60-3 CAPLUS
 CN 2-Oxepanone, homopolymer, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediyl] ester (9CI) (CA INDEX NAME)

CM 1

CRN 196516-61-7
 CHF C29 H26 N6 O4



CM 2

CRN 24980-41-4
 CHF (C6 H10 O2)x
 CCI PMS

CM 3

CRN 502-44-3
 CHF C6 H10 O2



L11 ANSWER 33 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

L11 ANSWER 33 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

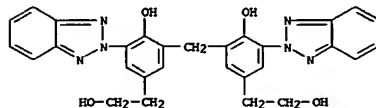
ACCESSION NUMBER: 2000:43472 CAPLUS
 DOCUMENT NUMBER: 132:109425
 TITLE: Coating compositions with good resistance to metal ion-induced discoloration and weather and UV absorbers for use in the compositions
 INVENTOR(S): Ogawa, Takashi; Akada, Mitsuo; Mori, Hiroshi
 PATENT ASSIGNEE(S): Ohtsuka Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
 CODEN: JPOOAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000017204	A	20000118	JP 1998-186543	19980701
JP 2918543	B2	19990712		

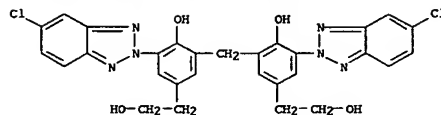
PRIORITY APPLN. INFO.: JP 1998-186543 19980701
 OTHER SOURCE(S): MARPAT 132:109425
 AB The coating compns. contain (A) radically polymerizable monomers or/and curable resins, and bisbenzotriazolyphenol compds. Thus, mixing Magicron TC 160 Clear (aminoacrylic clear coating) with 2 phr RUVA-100 (2,2'-methylenebis[6-(2H-1,2,3-benzotriazol-2-yl)-4-(2-hydroxyethyl)phenol]) gave a clear top coating composition for protecting prefinished metal sheet.

IT 196516-61-7, RUVA-100 196516-62-8 196516-63-9
 196516-64-0
 RL: MOA (Modifier or additive use); USES (Uses)
 (light stabilizer; coating compns. with good resistance to metal ion-induced discoloration and weather and UV absorbers for use in compns.)

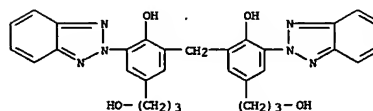
RN 196516-61-7 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy- (9CI) (CA INDEX NAME)]



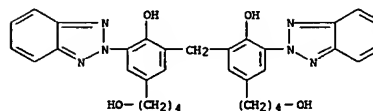
RN 196516-62-8 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(5-chloro-2H-benzotriazol-2-yl)-4-hydroxy- (9CI) (CA INDEX NAME)]



RN 196516-63-9 CAPLUS
 CN Benzenebutanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy- (9CI) (CA INDEX NAME)]



RN 196516-64-0 CAPLUS
 CN Benzenebutanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy- (9CI) (CA INDEX NAME)]



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L11 ANSWER 34 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:751440 CAPLUS
 DOCUMENT NUMBER: 132:3792
 TITLE: Weather-resistant polyolefines, their manufacture, and weather-resistant resin compositions
 INVENTOR(S): Kawano, Kazuhiro; Yamamoto, Minoru; Mori, Hiroshi; Akada, Mitsuo
 PATENT ASSIGNEE(S): Ohtsuka Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKOCAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11322841	A	19991126	JP 1998-126409	19980508
JP 2951639	B2	19990920		

PRIORITY APPLN. INFO.: JP 1998-126409 19980508

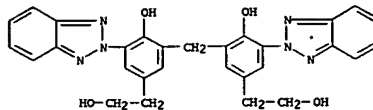
AB The polyolefines are those prepared from carboxy-modified polyolefins by esterifying with OH- or hydroxyalkyl-substituted benzotriazole-type, bisbenzotriazole-type, and/or triazine-type UV absorbers. The polyolefins are prepared by melt kneading of the above raw materials. The weather-resistant resin compns. are based on the modified polyolefins and the compns. show prevention of bleeding in long-term use. Thus, a mixture of modified polyolefin (Diacarna PAR 124) 100, 2'-hydroxy-5'-(hydroxyethyl)phenyl-ZH-benzotriazole 10, and H2SO4 1 g was heated at 130° for 7 h to give the polyolefin, 10 g of which was dry-blended with 100 g polypropylene, melt-kneaded, pelletized, and pressed to give a sheet showing 63% retention of initial gloss after 1000 h in sunshine weather-O-meter.

IT 250729-74-9P, Hivax 1105A ester with 2,2'-methylenebis[6-(2H-benzotriazol-2-yl)-4-(2-hydroxyethyl)phenol]
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (polyolefins esterified with UV absorbers for weather-resistant polyolefin compns. showing bleeding prevention)

RN 250729-74-9 CAPLUS
 CN Hivax 1105A, ester with 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxybenzenesethanol] (SCI) (CA INDEX NAME)

CH 1
 CRN 196516-61-7
 CMF C29 H26 N6 O4

L11 ANSWER 34 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CH 2
 CRN 74811-78-2
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L11 ANSWER 35 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:748528 CAPLUS
 DOCUMENT NUMBER: 131:338136
 TITLE: Transparent plastic laminates with good weather resistance
 INVENTOR(S): Mori, Hiroshi; Akada, Mitsuo
 PATENT ASSIGNEE(S): Ohtsuka Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKOCAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11320768	A	19991124	JP 1998-129217	19980512
JP 2969103	B2	19991102		

PRIORITY APPLN. INFO.: JP 1998-129217 19980512

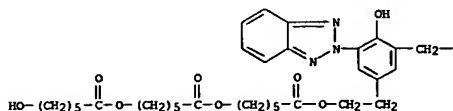
OTHER SOURCE(S): MARPAT 131:338136

AB The laminates are made from polycarbonates plastics, and have been covered with 21 acrylic layer containing benzotriazole compds. R1X1X2XZ (R1, R2 = optionally substituted benzotriazol-2-yl groups; X1, X2 = 2-hydroxy-1,3-phenylene groups bearing hydroxy(poly)alkanoate ester groups directly or via a C1-12 alkylene linking bridge; Z = C1-6 alkylene, O, NH, S, SO or SO2 bridges) as UV light stabilizers. Thus, heating 129.3 g RUVA 100, i.e., 2,2'-methylenebis[6-(2H-1,2,3-benzotriazol-2-yl)-4-(2-hydroxyethyl)phenol], with 170.3 g ε-caprolactone and 50 ppm S-Cat 24 (tin salt catalyst) at 150° for 6 h gave 2,2'-methylenebis[6-(2H-1,2,3-benzotriazol-2-yl)-4-(23-hydroxy-4,11,18-trioxo-3,10,17-trioxatricosyl)phenol] (I). Laminating a 30-μm film extruded from a blend of 100 parts Acrypet IRH 70 (acrylic resin) and 1 part the I, and a 20-μm film extruded from a blend of 100 parts Novarex 7027P (polycarbonate) and 1 part the I on 2 sides of a polycarbonate sheet gave a laminate with good UV light and crack resistance.

IT 250252-46-1 250252-47-2
 RL: MOA (Modifier or additive use); USES (Uses)
 (UV stabilizers; manufacture of UV stabilizers for use in transparent plastic laminates with good weather resistance)

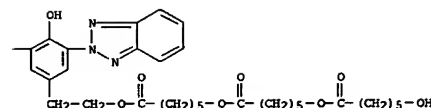
RN 250252-46-1 CAPLUS
 CN Hexanoic acid, 6-[[6-[(6-hydroxy-1-oxohexyl)oxy]-1-oxohexyl]oxy]-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediy] ester (SCI) (CA INDEX NAME)

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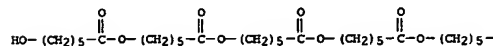
L11 ANSWER 35 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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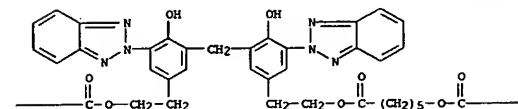


RN 250252-47-2 CAPLUS
 CN 7,14,21,28-Tetraoxatetradecanoic acid, 34-hydroxy-8,15,22,29-tetraoxo-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediy] ester (SCI) (CA INDEX NAME)

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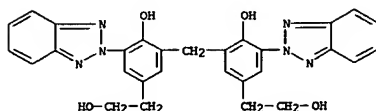
PAGE 1-C

IT 196516-61-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant; manufacture of UV stabilizers for use in transparent plastic laminates with good weather resistance)

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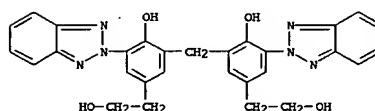
L11 ANSWER 35 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 RN 196516-61-7 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-
 (9CI) (CA INDEX NAME)



L11 ANSWER 36 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:747213 CAPLUS
 DOCUMENT NUMBER: 131:352312
 TITLE: Weather- and impact-resistant styrene resin laminates
 INVENTOR(S): Mori, Hiroshi; Akada, Mitsuo
 PATENT ASSIGNEE(S): Ohtsuka Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JJOCAJ
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11320798	A	19991124	JP 1998-130604	19980513
JP 2951641	B2	19990920		

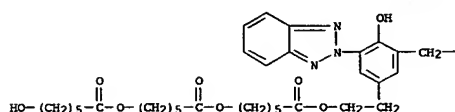
PRIORITY APPLN. INFO.: MARPAT 131:352312
 OTHER SOURCE(S):
 AB Styrene resins are laminated with polycarbonates containing 1-50% bisbenzotriazoles. Thus, a film containing 100 polycarbonate and 10 parts 2,2'-methylenebis[6-(2H-1,2,3-benzotriazol-2-yl)-4-(23-hydroxy-4,11,18-trioxo-3,10,17-trioxatricosyl)phenol] was laminated with an ABS polymer sheet.
 IT 196516-61-7, RUVA 100
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (RUVA 100; weather- and impact-resistant styrene resin laminates with polycarbonates containing bisbenzotriazoles)
 RN 196516-61-7 CAPLUS
 CN Benzeneethanol, 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-
 (9CI) (CA INDEX NAME)



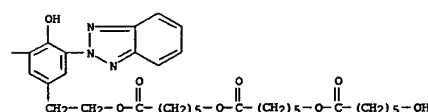
IT 250252-46-1P 250252-47-2P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (weather- and impact-resistant styrene resin laminates with polycarbonates containing bisbenzotriazoles)
 RN 250252-46-1 CAPLUS
 CN Hexanoic acid, 6-[[6-[(6-hydroxy-1-oxohexyl)oxy]-1-oxohexyl]oxy]-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanedyl] ester (9CI) (CA INDEX NAME)

L11 ANSWER 36 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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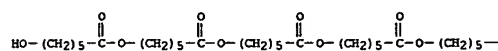


PAGE 1-B

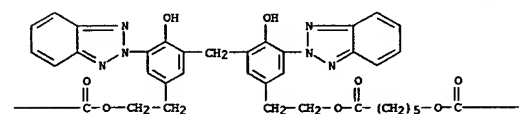


RN 250252-47-2 CAPLUS
 CN 7,14,21,28-Tetraoxatetraatriacontanoic acid, 34-hydroxy-8,15,22,29-tetraoxo-, methylenebis[[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanedyl] ester (9CI) (CA INDEX NAME)

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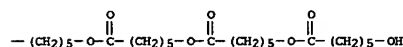


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L11 ANSWER 36 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-C



10562037

L11 ANSWER 37 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:651031 CAPLUS

DOCUMENT NUMBER: 129:331574

TITLE: Polyester-based UV absorbers, their manufacture, and

resin compositions containing them

INVENTOR(S): Endo, Toshio; Isobe, Tomohisa; Okumura, Koichi

PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JIOKAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10265557	A	19981006	JP 1997-91463	19970326
JP 3714575	B2	20051109		
TV 513450	B	20021211	TV 1998-87115575	19980918
			JP 1997-91462	A 19970326
			JP 1997-91463	A 19970326

PRIORITY APPLN. INFO.:

AB UV absorbing group-containing polyesters, preferably

 $H[O(CR1R2)nCO]_m[O(CR1R2)n'O]_m'H$ [R1, R2 = H, C1-10 alkyl; n, n' = 4-8;

m, m' = 1-20; Q = 3,3'-methylenebis[5-(2H-benzotriazol-2-yl)-4-

hydroxybenzeneethanol] (I) residue], are manufactured by ring-opening

addition

polymerization of lactones to I. Thus, 170.3 g ϵ -caprolactone was treated with 129.3 g I (MBEP) at 150° for 6 h in the presence of Sn catalyst (Scat 24) to give a polyester, 2 parts of which was added to 100 parts polypropylene and the resulting mixture was injection molded to give a test piece showing excellent tensile strength retention after accelerated weathering for 1000 h.

IT 214746-68-6P 215232-60-3P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP

(Properties); PREP (Preparation); USES (Uses)

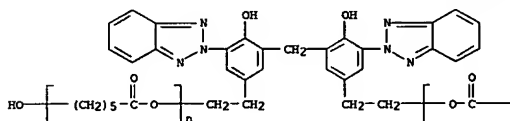
(methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl) group-containing

polyester UV absorbers for resin compns.)

RN 214746-68-6 CAPLUS

CN Poly[oxy(1-oxy-1,6-hexanediy)]_m, q, q' [methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediy]]bis[m-hydroxy- (9CI) (CA INDEX NAME)]

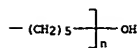
PAGE 1-A



L11 ANSWER 37 OF 37 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

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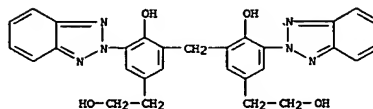
RN 215232-60-3 CAPLUS

CN 2-Oxepanone, homopolymer, methylenebis[5-(2H-benzotriazol-2-yl)-4-hydroxy-3,1-phenylene]-2,1-ethanediy] ester (9CI) (CA INDEX NAME)

CM 1

CRN 196516-61-7

CMF C29 H26 N6 O4



CM 2

CRN 24980-41-4

CMF (C6 H10 O2) x

CCI FMS

CM 3

CRN 502-44-3

CMF C6 H10 O2

